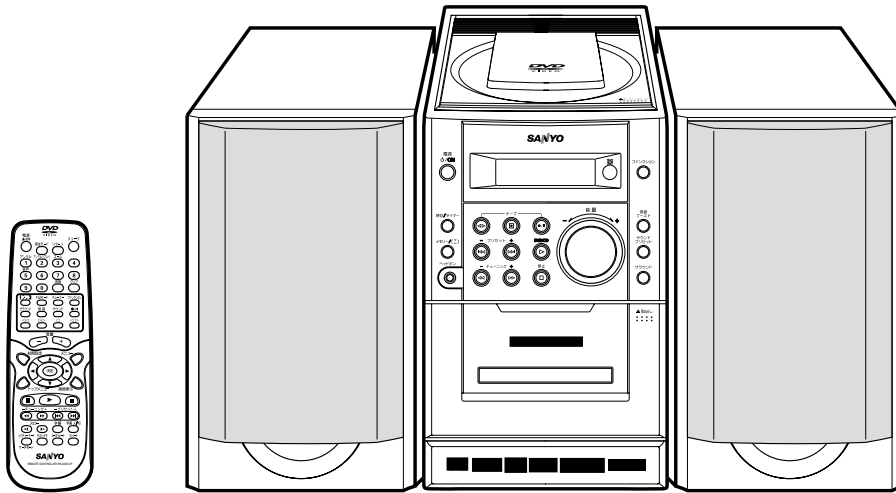


Service Manual

DVD Micro Component System

DC-PT70 (UK)
(XE)



CONTENTS

PRODUCT CODE No.
129 696 03 UK
129 696 04 XE

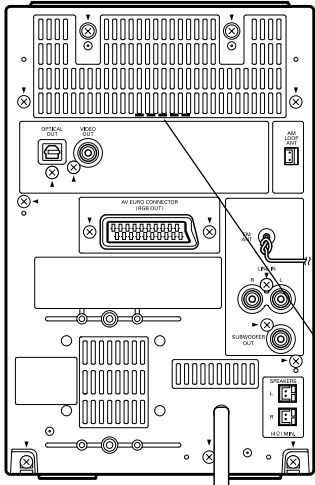
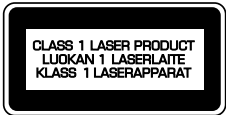
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LASER BEAM SAFETY PRECAUTION

- Pick-up that emits a laser beam is used in this CD player section.

CAUTION :
USE OF CONTROLS OR ADJUSTMENTS
OR PERFORMANCE OF PROCEDURES
OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS RADIATION
EXPOSURE

LASER OUTPUT 0.6 mW Max. (CW)
WAVELENGTH 790 nm



CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND
INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING. NÅR
SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE
FOR STRÅLING.

VARNING – OSYNLIG LASER STRÅLING NÅR DENNA DEL ÄR ÖPPNAD
OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.

VORSICHT – UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN
DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG
ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.

VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA
NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.



DVD MECHANISM REPLACEMENT

1. Cautionary instructions in handling the assy

(Safety instructions)

Optical pickup

The laser beam used in the pickup is classified as "class 2". Ex-
posing your eyes or skin to the beam is harmful. Take care not to
do so.

(Caution against static electricity and leakage voltage)

Ground securely the work tables, tools, fixtures, soldering irons
(including those made of ceramic) and measuring instruments
used in the production lines and inspection departments that
handle loaders. The workers shall also be grounded.

(Cautionary instructions in handling)

Do not touch the object lens when handling a loader, or the lens
will be stained, resulting in inadequate playability.

There is no power supply protection circuit provided for this prod-
uct or adjustment/inspection device. Short-circuiting may lead to
fire or damage.

Take care so as to protect from exposure to water, the entry of
metallic pieces or dew condensation.

In particular, a strong magnet adjacent to the pickup will not only
get inoperative but can damage the pickup if a small metallic
piece, such as a screw or swarm, enters.

The loader edge can cause injury if inadvertently handled.

Do not touch a rotating disk, or injury may result.

This product is a precision device. Handle carefully.

A shock or dropping will cause misalignment or destruction. If it
should occur, refer to clause 2.

This product is so designed as to endure an initial shock equiva-
lent to a drop from a height of approx. 90 cm under the packed
condition.

After the initial shock, the resistivity will still remain at a level of
50 to 60 G, but the mechanical robustness will weaken.

Do not place in a dusty location.

The entry and deposition of dirt into or on the pickup lens or
moving section will cause malfunction or degradation.

(Connectors)

Do not connect or disconnect while power is on.

Connecting or disconnecting signal wires or the main power cord
when the power is on may destruct the unit or fixture.

When connecting, push all the way in securely.

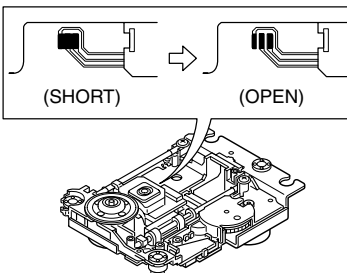
An insufficient insertion may cause a bad contact, leading to an
erroneous operation.

Do not connect or disconnect roughly by an excessively strong
force, or a broken wire or bad contact may result.

Semiconductors are connected. Do not touch connector termi-
nals directly.

If the worker is grounded, there is nothing to worry about static
electricity, but the rust on the connector terminal surface caused
by the touch may result in bad contact.

(Caution)



Before disconnecting FFC
cable, make it "SHORT" as
shown left.

After connecting FFC
cable, make it "OPEN" as
shown left.

(Power source)

The power source need be good in quality (free from instanta-
neous interruptions or noises).

A low quality power source may well cause malfunction.

(Storage)

Do not place or store in a dusty place or a place where dew
condensation is possible.

The entry and deposition of dirt or dust into or on the pickup lens
or moving section will cause malfunction or degradation.

Also, dew condensation causes rust; the rust penetrate into the
precision part of a pickup, causing malfunction, or degrading the
optical quality of the internal lens and reflector, which also leads
to malfunction.

SERVICE MODE

A. Market / Region SETUP

In the initial condition for this model, Market and Region information are undefined.

In the following cases, be sure to set up Market/Region.

1. When updating the system using CD-R
(Part code :0PRADC9695--A).

2. When replacing a DVD substrate.

While Market/Region information are undefined, the message "Region Undefined" is displayed on the screen.

NOTE: Even if the condition is not under 1 or 2 above, if the message "Region Undefined" is displayed, be sure to set up Market/Region.





B. How to enter Service Mode.

You can enter Service Mode in any one of the following ways (1 to 3).

1. Using the buttons on the main unit

1-1. Display on "No Disc" by Function button.

1-2. Immediately (within one second) after pushing sound preset button both and  buttons simultaneously, push  button.

2. Pushing the covered key located beneath Book Mark key on RB-1500 or REM-S1500.

Location of the key
for entering
Service Mode



3. Simultaneously pushing both Shift key and ON SCREEN key on RB-TS780.

SERVICE MODE

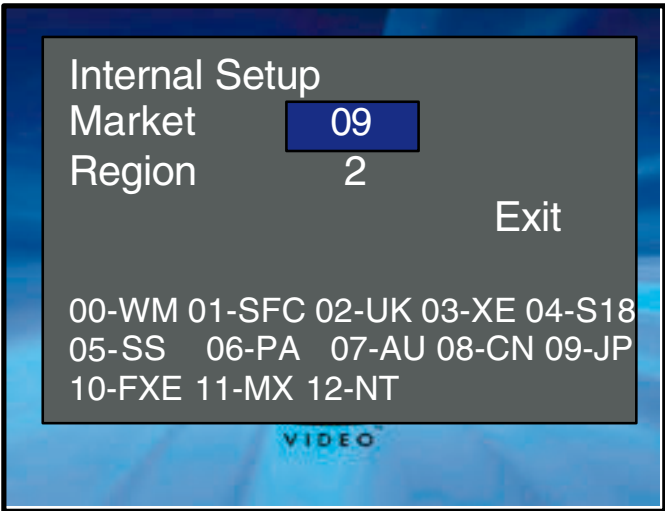
C. Setup Procedures

1. Displaying SERVICE MODE screen
Display Service Mode screen following the instructions "How to enter Service Mode" above.



(Reference figure)

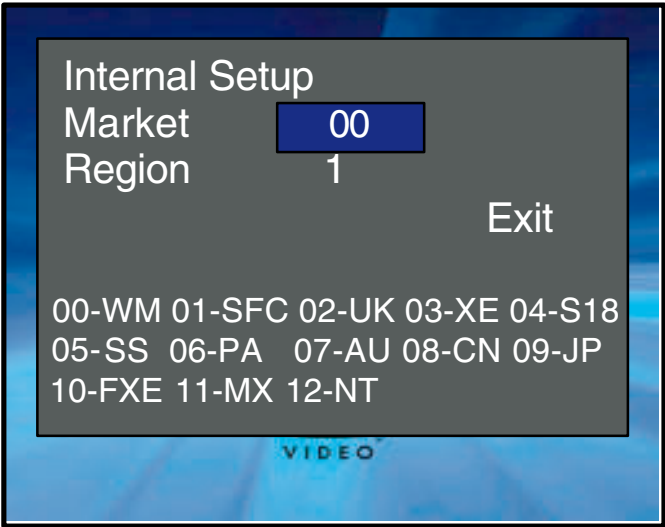
2. Displaying Internal Setup screen
Push button within three seconds after operating the Service Mode display.
On the Internal Setup screen shown on the right, set up Market and Region.



(Reference figure)

3. Setting Market code

3.1. While a highlighted indicator is displayed on the right side of the Market denotation, push numeric buttons on the remote controller.
When you push wrong number , push CLEAR button.
(The indicator reset to "00")
Be sure to input by double figures.
Maket code of UK model is "02", and XE model is "03".



(Reference figure)

3.2. Specify the code of the model in accordance with the Market/Region Setup Table above.

3.3 Once the desired code is displayed, push button to move the highlighted indicator to the Region input area.

SERVICE MODE

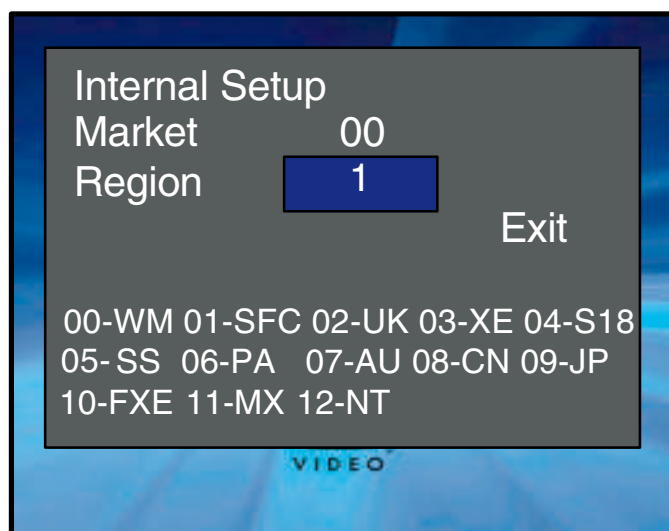
4. Setting REGION code

4.1 While a highlighted indicator is displayed on the right side of the Region denotation, push ENT, ◀ and ▶ each button on the remote controller. With each push the indicator will advance as shown below.

1 <-> 2 <-> 3 <-> 4 <-> 5 <-> 6

4.2 Set up the region coder currently displayed on the set.

4.3 Once the desired number is displayed, push ▼ button to move the highlighted indicator to Exit area.



(Reference figure)



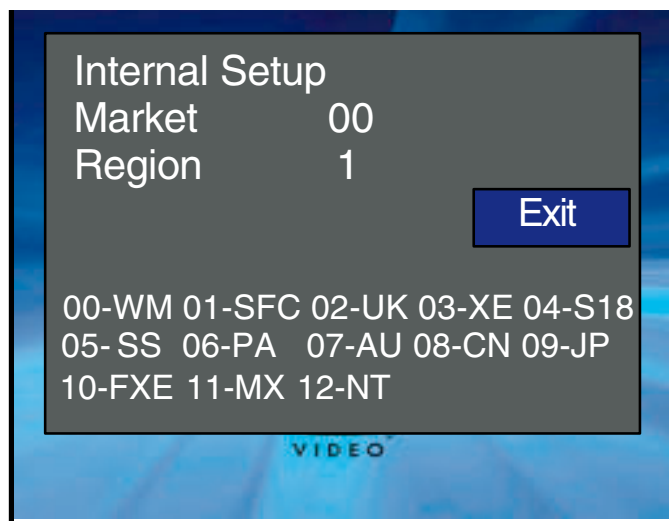
The sample of a display of a region code.

5. Saving settings

5.1 Make sure that the Market and Region settings are properly set.

(If any of the settings are incorrect, you can make a change by moving the indicator using ▲ button, and following procedures 3 and 4 above.)

5.2 After ensuring that the settings are all correct, push ENT button while the indicator is on Exit area. The settings are now saved.



(Reference figure)

6. Finishing settings

6.1 After a few seconds, the Internal Setup screen disappears, and then the Service Mode screen is displayed again for three seconds as shown on the right.

You should check the settings.

Backend version S 31204 A 2
 Brand (S : SANYO , F : FISHER) ←
 Version (2 0 0 2 . 12 . 25) ←
 Sub Version (A,B,.....Z) ←
 Region (0 : Region undefined
 1 ~ 6 : Region defined) ←
 Loader Version (17 Z09 Y03)



(Reference figure)

6.2 Power OFF.

SERVICE MODE

D. IMPORTANT NOTE

1. Once the "Market/Region" settings are written into EEPROM (IC801) on the DVD substrate, they cannot be reset.
(However, updating the system using CD-R enables you to make new settings.)
2. While the Internal Setup screen is displayed, pushing the Power button enables you to terminate the operations without making any settings.

HOW TO LOAD SOFTWARE FOR MPEG P.W.BOARD

1. Power on, then open disk lid.
2. The function key of remote control is pushed and it is made DVD/CD mode.
3. It take on CD-ROM for UPDATE software to the tray, and disk lid close.
4. It is displayed on a screen as "Reading" and is displayed on LCD as "READING."
5. A screen will become noise-like if UPDATE is started.
Cautions) update is not ended even if rotation of a disk stops.
3. For the time being, tray open and FL display remain "UP DATING".
4. Loading of software will be completed, if update is started and about 60 seconds pass,
then the display of "update" of LCD will be "GOOD-BY" and disappears soon.
5. The disk for update is taken out.
6. Next, set up market code and region code by "SERVICE MODE"
CD-ROM part code is "0PRADC9695--A".

CAUTIONS FOR PWB OR IC ASSY EXCHANGE

After an MAIN board(614 329 5587) or IC ASSY(410 507 6601) exchange should carry out loading of the software by the newest CD-R, and should check operation.

CAUTIONS FM ANTENNA WIRE

The knot is made so that FM antenna line may not enter during a set of a line. If it enters in a set of FM antenna line, There is a danger that a line will melt into the high-fever part in a set.

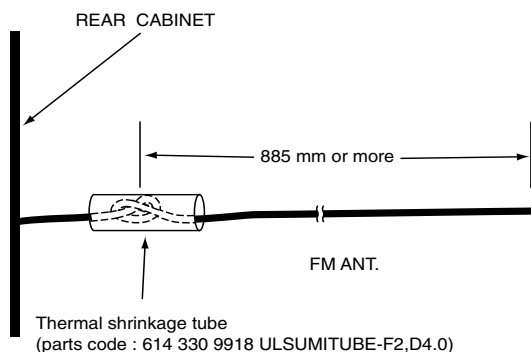
Be careful of below at things at the time of disassembly of a set, and an assembly.

At the time of disassembly of a set

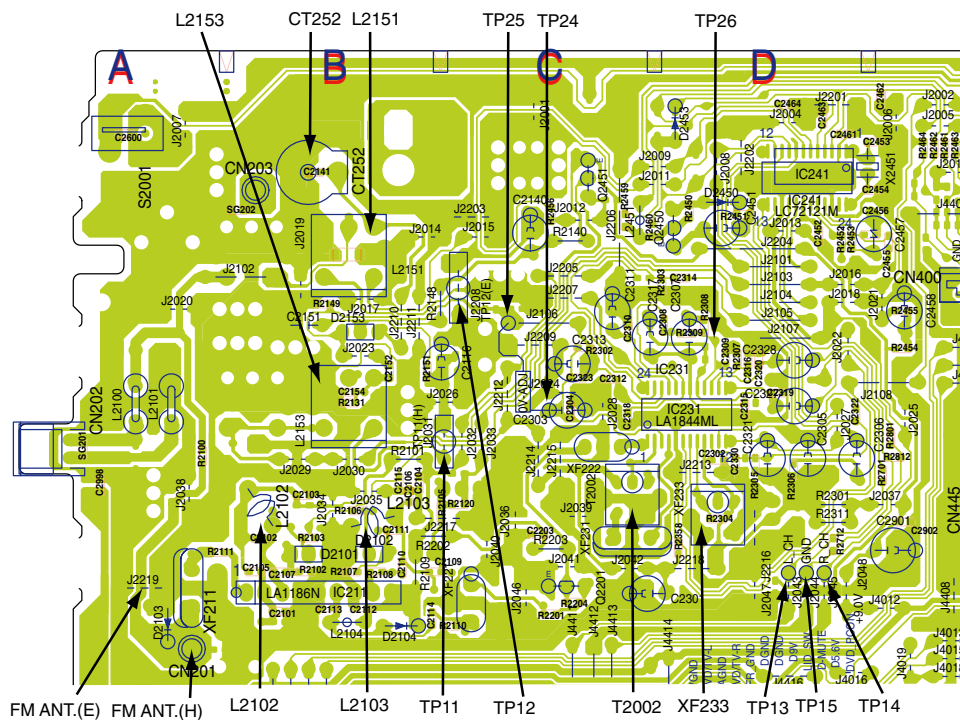
Remove thermal shrinkage tube, and disassemble a set after loosening the knot of a line.

At the time of the assembly of a set

Make a knot to the place distant from the end of a line 885mm or more, fix a knot to it by thermal shrinkage tube(parts code : 614 330 9918 ULSUMITUBE-F2,D4.0), and a line should not enter it from a knot.



- MODE : ST (Stereo)
- TUNING FM : 87.5 - 108MHz
AM : 522 - 1710 kHz



Antenna : 75Ω unbalanced direct, Modulation : 1 kHz
Dev. : ±22.5kHz(MONO), ±22.5kHz(STEREO),±6.75kHz(PILOT)
RF Level : dBuV EMF
Output Level : about 100mV at TP13, TP14, TP15

1. FM

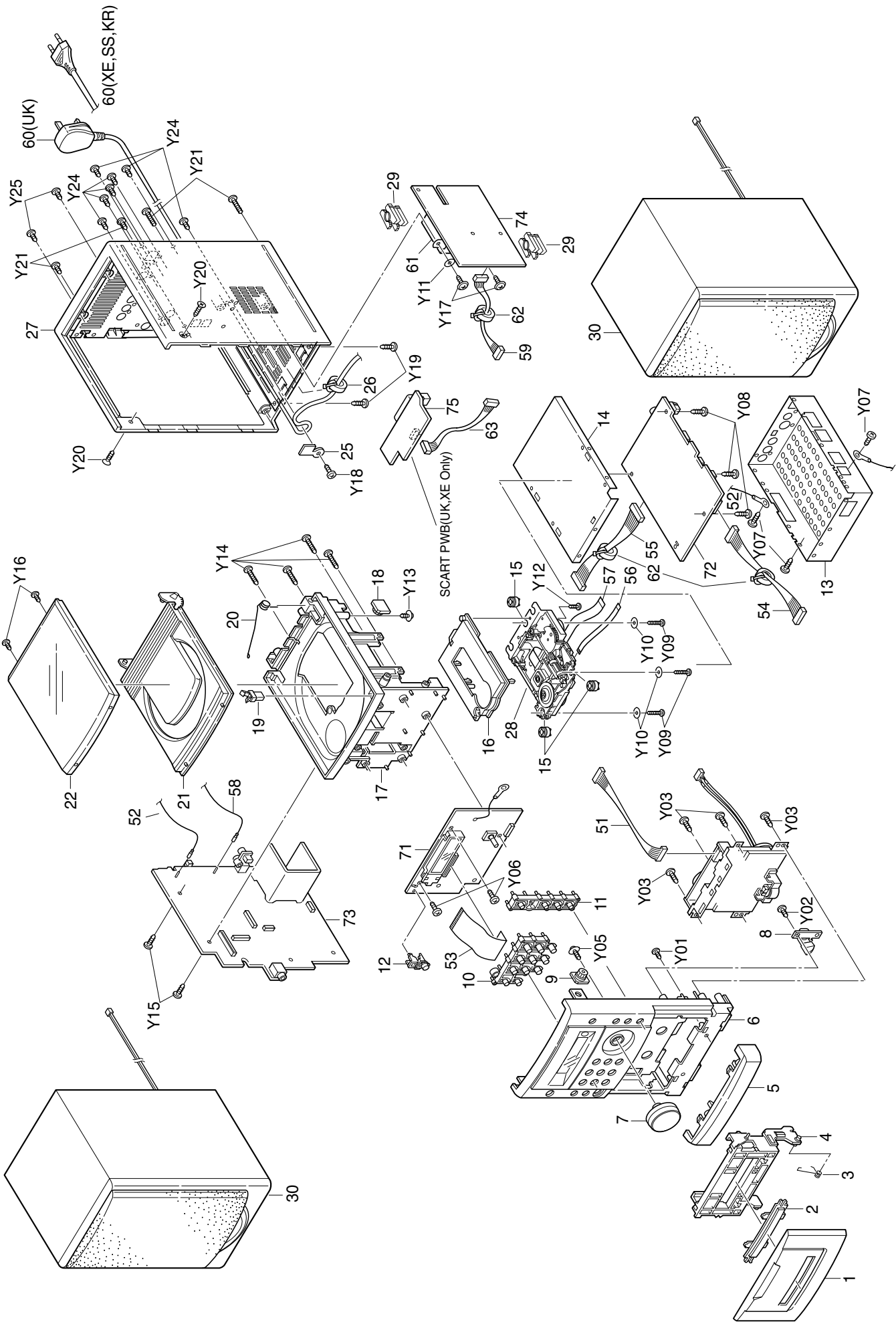
Step	Adjusting Circuit	Connection		SG Frequency	Adjustment	Remark
		Input	Output			
1	IF Adjustment	FM Ant SG=66dBμV	IC231 3-22Pin TP24,25	98.0MHz	XF233	0.0±0.05V
2	Cover	---	TP11 (H) TP12 (E)	87.5MHz	L2103	About 1.1V
				108.0MHz	---	Confirm voltage is < 8.0V
3	Tracking	FM Ant SG=8dBμV	TP13 (L) TP14 (R) TP15 (E)	90.0MHz	L2102	Max.
				106.0MHz		

Anntena : IRE Loop(SG), Moduration : 1kHz 30%
RF Level : dBuV EMF

2. AM

Step	Adjusting Circuit	Connection		SG Frequency	Adjustment	Remark
		Input	Output			
1	IF Adjustment	Loop Ant	IC231 19Pin_DCCUT (TP26)-GND	522kHz	T2002	Max.
2	Cover Voltage	---	TP11 (H)	522kHz	L2153	1.0±0.1V
			TP12 (E)	1710kHz	---	Confirm voltage is < 8.5 V.
3	Tracking	Loop Ant SG=80dBμV/m	TP13 (L)	603kHz	L2151	Max.
			TP14 (R)	1404kHz	CT252	Max.
			TP15 (E)			

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL Δ IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY AND PERFORMANCE CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY Δ , USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.
Regular type resistors are less than 1/4 W carbon type and 0 ohm chip resistors.
Regular type capacitors are less than 50 V and less than 1000 μ F type of Ceramic type and Electrical type.

PACKING & ACCESSORIES

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
	645 063 7483	ASSY,ANTENA,LOOP	28	614 328 2877	ASSY,MECHA, KIT800 SE BASE,BASE MECHA
	645 066 9330	CABLE,VIDEO,CABLE,VIDEO	29	614 329 8465	MOUNTING,TRANS, TRANS
	614 329 5303	CARTON CASE(UK)			
	614 329 5310	CARTON CASE(XE)			
	614 329 0315	CUSHION,FRONT			
	614 329 0322	CUSHION,REAR			
	614 329 5365	INSTRUCTION MANUAL(UK)			
	614 329 5372	INSTRUCTION MANUAL(XE)			
	614 329 5426	INSTRUCTION MANUAL,GREEK(XE)			
	645 037 8102	POLY BAG-0150X0500*NC, AC CORD(UK)			
	645 042 3628	POLY BAG-0150X0500*NC, AC CORD(XE)			
	645 067 3887	POLY BAG-0180X0250*NC, ACCESSORY			
	645 066 4410	POLY BAG-0250X0350*NC, INST MANUAL			
	645 066 3864	POLY SHEET-0900X0300*NC, SET(UK)			
	645 067 5164	POLY SHEET-0900X0300*NC, SET(XE)			
	645 064 9356	REMOCON,RB-PT70,RB-PT70			
30	614 330 1028	ASSY,BOX,SPEAKER(UK)			
30	614 330 1721	ASSY,BOX,SPEAKER(XE)			

CABINET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
1	614 319 6983	COVER,DECK(UK)			
1	614 325 7981	COVER,DECK(XE)			
2	614 319 7003	DEC,WINDOW,DECK(UK)			
2	614 326 3043	DEC,WINDOW,DECK(XE)			
3	614 320 3520	SPRING,WIRE,DOOR DECK			
4	614 319 7096	LID,CASSETTE			
5	614 329 0469	PANEL			
6	614 329 5228	ASSY,PANEL FRONT(XE)			
6	614 329 5211	ASSY,PANEL FRONT(UK)			
7	614 319 7072	KNOB,VOLUME			
8	614 303 1277	LATCH,CAM,DECK DOOR LOCKING			
9	614 309 7969	ASSY,GEAR,LID CASSETTE			
10	614 330 0816	BUTTON,OPERATION,11 KEYS(UK)			
10	614 330 0809	BUTTON,OPERATION,11 KEYS(XE)			
11	614 319 6945	BUTTON,RIGHT,4 KEYS			
12	614 325 7974	BUTTON,POWER			
13	614 328 7322	SHIELD,MPEG			
14	614 328 7254	MOUNTING,MPEG			
15	614 325 5369	SPACER,MECHA,BASE MECHA FIX			
16	614 328 7193	COVER,PICK UP			
17	614 328 7261	MOUNTING,DVD			
18	614 322 2125	ASSY,GEAR,LID DVD			
19	614 303 0263	LATCH,PUSH,DVD DOOR LOCKING			
20	614 328 8442	SPRING,LID DVD			
21	614 328 7247	LID,DVD			
22	614 330 0847	DEC,WINDOW,DVD(XE)			
22	614 330 0854	DEC,WINDOW,DVD,LID(UK)			
25	Δ 614 330 0465	PWB,STOPPER,STOPPER			
27	614 329 5150	ASSY,CABINET,REAR(XE)			
27	614 329 5143	ASSY,CABINET,REAR(UK)			

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y01	411 156 2105	SCR S-TPG BIN 2.3X6, PANEL+PANEL FRONT
Y02	411 021 3503	SCR S-TPG BIN 3X10, F-PANEL+LATCH CAM
Y03	411 021 3503	SCR S-TPG BIN 3X10, F-PANEL+DECK MECHA
Y05	411 020 8905	SCR S-TPG BRZ+FLG 3X10, MTG DVD+ASSY.GEAR LID DV
Y06	411 021 3503	SCR S-TPG BIN 3X10, FRONT PWB+MTG DVD
Y07	411 021 6405	SCR S-TPG BIN 3X8, SHIELD MPEG FIX
Y08	411 021 6405	SCR S-TPG BIN 3X8,MPEG FIX
Y09	411 132 4703	SCR S-TPG BIN 2X10,DVD MECHA
Y10	411 185 0103	WASHER Z 2.1X9.5X0.5, DVD MECHA
Y11	411 153 0708	WASHER Z 3X15X0.8, REAR+P-TRANS
Y12	411 021 0809	SCR S-TPG BIN 2X6, DVD MECHA COVER
Y13	411 020 8905	SCR S-TPG BRZ+FLG 3X10, F-PANEL+ASSY.GEAR DECK
Y14	411 021 4906	SCR S-TPG BIN 3X20, F-PANEL+MOUNTING DVD
Y15	411 021 3503	SCR S-TPG BIN 3X10, MAIN PWB +MTG DVD
Y16	411 184 0906	SCR S-TPG BIN 2.3X10, LID DVD+DEC WINDOW DVD
Y17	411 098 4403	SCR S-TPG BIN 3X25, REAR+P-TRANS
Y18	411 021 3503	SCR S-TPG BIN 3X10, REAR+PWB STOPPER
Y19	411 098 4403	SCR S-TPG BIN 3X25, REAR+PANEL FRONT
Y20	411 098 7800	SCR S-TPG FLT 3X12, REAR+MTG(L/R)
Y21	411 021 6405	SCR S-TPG BIN 3X8, SHIELD BOTTOM
Y24	411 021 3404	SCR S-TPG BIN 3X10,REAR+OUT
Y25	411 021 3404	SCR S-TPG BIN 3X10, SHIELD REAR FIX(XE)

ELECTRICAL-PARTS

REF.NO.	PART NO.	DESCRIPTION
26	645 031 7637	CORE,FERRITE,FOR AC CORD
or	645 051 0649	CORE,FERRITE,FOR AC CORD
51	614 329 9516	ASSY,WIRE,AMP-DECK
52	614 330 9093	CORD,1P CONNECTOR, TUNER GND-SHIELD
53	645 067 5577	FLEXIBLE FLAT CABLE
54	614 330 6122	ASSY,WIRE,AMP-DVD
55	614 329 0414	ASSY,WIRE,FRONT-DVD

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
56	645 066 2430	FLEXIBLE FLAT CABLE,MECHA
57	645 066 2423	FLEXIBLE FLAT CABLE,PICK-UP
58	614 274 2013	CORD,ID CONNECTOR,FM ANT
59	614 329 3170	ASSY,WIRE,AMP-DG
60	△ 645 036 9797	CORD,POWER-1.6MK,FOR UK(UK)
or	△ 645 036 9803	CORD,POWER-1.6MK,FOR UK(UK)
or	△ 645 054 0233	CORD,POWER-1.6MK,FOR UK(UK)
60	△ 645 016 9939	CORD,POWER-1.74MK,FOR XE(XE)
or	△ 614 255 2513	POWER CORD,FOR XE(XE)
61	△ 645 067 0282	TRANS,POWER
62	645 051 0656	CORE,FERRITE, DG-MAIN,DVD-MAIN,FRONT-DVD
or	645 042 8999	CORE,FERRITE, DG-MAIN,DVD-MAIN,FRONT-DVD
63	614 330 6139	ASSY,WIRE,DVD-SCART

FRONT P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 329 9851	ASSY,PWB,FRONT(UK)(Only initial)
71	614 330 1738	ASSY,PWB,FRONT(XE)(Only initial)
BRC60	614 328 7209	COVER,LED,COVER_LED
BRH60	614 328 7230	HOLDER,LCD,HOLDER_LCD
BRS60	614 327 1512	DEC,SHEET,LCD,DEC_SHEET_LCD
CN601	645 009 8444	SOCKET,FFC 24P
CN602	614 310 2656	PLUG,9P
or	645 006 0960	PLUG,9P
D6211	407 225 7300	LED LT03B3-43-URE1(UK)
D6211	408 053 4004	LED LT0334-43-UBC1, AMBER_LED(XE)
DS601	407 232 4002	PHOTO DIODE SPS-440-1-VG
IC601	410 507 6908	IC LC877440A-53C2
IC602	410 429 7908	IC AT24C02N-10SI-2.7
or	410 448 8504	IC S524A40X21-SCB0
or	410 448 8405	IC S524A40X21-SCT0
IC603	409 575 1908	IC PST3645U
L6010	645 001 4550	INDUCTOR,10U K
LCD61	645 065 1656	LCD
LG601	614 129 9082	LUG
Q6108	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
or	405 017 9600	TR 2SC3330-T
or	405 017 9709	TR 2SC3330-U
or	405 143 8706	TR KTC3199-GR
Q6211	405 000 3806	TR DTC114YS
or	405 143 0007	TR KRC107M
Q6212	405 000 3806	TR DTC114YS
or	405 143 0007	TR KRC107M
Q6271	405 000 3806	TR DTC114YS
or	405 143 0007	TR KRC107M
Q6272	405 004 4601	TR 2SA608-F-SPA
or	405 004 5103	TR 2SA608-G-SPA
or	405 006 1806	TR 2SA933S-R
or	405 006 1905	TR 2SA933S-S
or	405 143 6504	TR KTA1267-GR
S6001	645 054 1230	SWITCH,ROTARY(ENCODER)
S6110	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6111	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6112	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6113	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6114	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6115	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T

REF.NO.	PART NO.	DESCRIPTION
S6116	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6117	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6210	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6211	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6212	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6213	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6214	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6215	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6216	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6217	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
SG601	645 055 3202	SURGE-ABSORBER
X6000	645 032 1627	OSC,CRYSTAL 32.768KHZ,XTAL
X6102	645 018 6103	OSC,CERAMIC 6.000MHZ,6MHZ

DVD P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 329 5587	ASSY,PWB,DVD(Only initial)
△ C8535	△ 403 373 7902	ELECT 150U M 6.3V
CN100	645 065 3797	SOCKET,FPC 24P
CN110	614 310 2595	PLUG,3P
or	645 005 8226	PLUG,3P
CN162	645 057 5945	SOCKET,FPC 6P
CN870	645 037 3831	JACK,RCA
CN871	407 234 1801	PHOTO COUPLE GP1FA513TZM
CN873	614 310 2656	PLUG,9P
or	645 006 0960	PLUG,9P
CN874	614 310 2694	PLUG,13P
or	645 005 8233	PLUG,13P
CN875	614 310 2663	PLUG,10P
or	645 006 0977	PLUG,10P
D1000	407 221 1906	DIODE KDS121E
or	407 162 8507	DIODE DAN222
D1001	407 221 1807	DIODE KDS120E
or	407 179 1805	DIODE DAP222
D1002	407 149 0807	DIODE 1SS355
D1700	407 149 0807	DIODE 1SS355
IC100	409 564 4507	IC LA9703WLS-MPB
or	409 518 1507	IC LA9703WL-MPB
IC101	409 543 7208	IC KTC801U-Y
IC102	409 543 7208	IC KTC801U-Y
IC130	409 564 5702	IC LC78663NRW-UST
or	409 531 6107	IC LC78663NRW
IC131	410 433 0308	IC M11L416256SA-35T
IC160	409 562 8804	IC IKE80-E
IC800	409 546 2002	IC ZR36748
IC801	410 448 8405	IC S524A40X21-SCT0
or	410 448 8504	IC S524A40X21-SCB0
or	410 429 7908	IC AT24C02N-10SI-2.7
IC802	409 505 0803	IC PST3627U
IC806	410 430 9403	IC 74VHCT08AMTCX
IC807	409 521 9606	IC CD4066BCM

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
IC818	410 507 6601	IC ASSY (IC SST39VF800A-70-4C-EK or SST39VF800-70-4C-EK or LE28DW8163T-70T-MPB or SST39VF800A-70-4C-EK,D)	C2457	403 259 0508	NP-ELECT 1U M 50V
IC822	410 470 5007	IC M12L16161A-7T	C4134	403 058 4608	POLYESTER 0.15U J 50V
or	410 453 9602	IC LC3816161ET-70-MPB	C4136	403 350 8403	ELECT 1000U M 16V
or	409 482 0209	IC K4S161622D-TC80	or	403 366 5205	ELECT 1000U M 16V
or	409 482 0209	IC K4S161622D-TC80	C4234	403 058 4608	POLYESTER 0.15U J 50V
IC850	△ 409 534 5800	IC PQ2L2182MS	C4236	403 350 8403	ELECT 1000U M 16V
IC851	△ 409 509 9208	IC PQ070XZ01Z	or	403 366 5205	ELECT 1000U M 16V
IC852	△ 409 543 0100	IC PQ1X501M2Z	C4601	403 057 3503	POLYESTER 0.1U K 50V
IC859	409 489 9700	IC NC7SZ157P6	C4605	403 061 3605	POLYESTER 0.039U J 50V
IC871	409 581 9400	IC PCM1755DBQ,DAC_2CH	C4606	403 396 0201	PORYESTER 4700P J 200V
IC881	409 543 6409	IC KRX101U	C4607	403 396 0102	POLYESTER 470P J 200V
L1002	645 034 7887	INDUCTOR,1000 OHM	C4608	403 060 2807	POLYESTER 0.027U K 50V
or	645 020 1813	INDUCTOR,1000 OHM	C4801	△ 403 370 3402	ELECT 220U M 35V
or	645 045 7869	IMPEDANCE,1000 OHM P	C4805	△ 403 370 3402	ELECT 220U M 35V
L1302	645 034 7887	INDUCTOR,1000 OHM	C4815	△ 403 370 3402	ELECT 220U M 35V
or	645 020 1813	INDUCTOR,1000 OHM	CN201	614 221 8273	TERMINAL
or	645 045 7869	IMPEDANCE,1000 OHM P	CN202	614 310 2298	PLUG,2P
L8060	645 034 7887	INDUCTOR,1000 OHM	or	645 004 2683	PLUG,2P
or	645 020 1813	INDUCTOR,1000 OHM	CN203	614 221 8273	TERMINAL
or	645 045 7869	IMPEDANCE,1000 OHM P	CN400	645 009 8444	SOCKET,FFC 24P
L8202	645 034 7887	INDUCTOR,1000 OHM	CN401	645 006 1875	PLUG,2P,SPEAKER
or	645 020 1813	INDUCTOR,1000 OHM	CN402	645 006 1875	PLUG,2P,SPEAKER
or	645 045 7869	IMPEDANCE,1000 OHM P	CN410	614 310 2489	PLUG,7P
L8203	645 034 7887	INDUCTOR,1000 OHM	or	645 006 0861	PLUG,7P
or	645 020 1813	INDUCTOR,1000 OHM	CN420	614 310 2540	PLUG,13P
or	645 045 7869	IMPEDANCE,1000 OHM P	or	645 006 0885	PLUG,13P
L8203	645 034 7887	INDUCTOR,1000 OHM	CN440	614 310 2472	PLUG,6P
or	645 020 1813	INDUCTOR,1000 OHM	or	645 005 8127	PLUG,6P
or	645 045 7869	IMPEDANCE,1000 OHM P	CN442	645 065 5920	JACK,RCA-2
L8400	645 040 6430	INDUCTOR,2.2U M	CN443	645 055 1017	JACK,PHONE D3.6,HEADPHONE
L8410	645 040 6430	INDUCTOR,2.2U M	or	645 011 6384	JACK,PHONE D3.6,HEADPHONE
L8420	645 040 6430	INDUCTOR,2.2U M	CN445	614 310 2502	PLUG,9P
L8440	645 040 6430	INDUCTOR,2.2U M	or	645 005 8141	PLUG,9P
L8582	645 034 7887	INDUCTOR,1000 OHM	CN470	645 046 1866	JACK,RCA
or	645 020 1813	INDUCTOR,1000 OHM	CT252	645 032 5663	TRIMMER,7PF
or	645 045 7869	IMPEDANCE,1000 OHM P	D2101	407 157 8109	VARACTOR DI SVC211-B
L8701	645 034 7887	INDUCTOR,1000 OHM	D2102	407 157 8109	VARACTOR DI SVC211-B
or	645 020 1813	INDUCTOR,1000 OHM	D2103	407 012 4406	DIODE 1SS133
or	645 045 7869	IMPEDANCE,1000 OHM P	D2104	407 012 4406	DIODE 1SS133
Q1005	405 158 5905	TR KTA1505-Y	D2153	407 105 1305	VARACTOR DI SVC342L-V
or	405 035 5509	TR 2SA1036K-R	or	407 105 1602	VARACTOR DI SVC342M-V
Q1006	405 158 5905	TR KTA1505-Y	D2450	407 012 4406	DIODE 1SS133
or	405 035 5509	TR 2SA1036K-R	D2454	407 012 4406	DIODE 1SS133
Q1007	405 146 1605	TR KRC102S	D4400	407 099 5303	ZENER DIODE MTZJ5.6B
or	405 132 3101	TR DTC114EKA	D4500	407 012 4406	DIODE 1SS133
Q8000	405 151 6107	TR KRA107S	D4800	△ 408 044 6307	DIODE SB140L 19C2-004
or	405 141 5707	TR DTA114YKA	D4801	407 099 5402	ZENER DIODE MTZJ6.2B
Q8001	405 159 0503	TR KRC107S	D4810	△ 408 044 6307	DIODE SB140L 19C2-004
or	405 141 5608	TR DTC114YKA	D4811	407 099 6102	ZENER DIODE MTZJ10B
Q8313	405 159 0503	TR KRC107S	D4820	407 012 4406	DIODE 1SS133
or	405 141 5608	TR DTC114YKA	D4830	407 099 6607	ZENER DIODE MTZJ12B
Q8314	405 159 0503	TR KRC107S	D4851	407 099 6102	ZENER DIODE MTZJ10B
or	405 141 5608	TR DTC114YKA	D4852	407 012 4406	DIODE 1SS133
RN100	645 057 4252	R-NETWORK 8.2KX4 1/16W	D4860	407 012 4406	DIODE 1SS133
RN101	645 057 4290	R-NETWORK 47KX4 1/16W	HS401	614 319 7065	HEAT SINK,HEATSINK
RN103	645 057 2159	R-NETWORK 1KX4 1/16W	IC211	409 016 0200	IC LA1186N-AUDIO
RN131	645 057 2135	R-NETWORK 47X4 1/16W	IC231	409 474 3201	IC LA1844ML
RN132	645 057 2135	R-NETWORK 47X4 1/16W	IC241	409 439 4502	IC LC72121M-D
RN133	645 057 2135	R-NETWORK 47X4 1/16W	IC440	409 451 7406	IC AN7348K
RN801	645 057 4238	R-NETWORK 33X4 1/16W	IC441	409 474 6103	IC LC75342M
SG872	645 055 3202	SURGE-ABSORBER	IC442	△ 409 313 0705	IC TA8223K
SG873	645 055 3202	SURGE-ABSORBER	IC443	409 189 3404	IC BA7755A
X1500	645 065 2479	OSC,CERAMIC 16.93MHZ	IC480	△ 409 578 5002	IC SPI-8002TW
or	645 059 7060	OSC,CERAMIC 16.93MHZ	L2100	645 006 3602	INDUCTOR,1.1UH
or	645 017 0157	OSC,CERAMIC 16.93MHZ	L2101	645 006 3602	INDUCTOR,1.1UH
X8230	645 053 4270	OSC,CRYSTAL 27.000MHZ	L2102	645 018 0163	COIL,AIR
or	645 045 8293	OSC,CRYSTAL 27.000MHZ	L2103	645 018 0255	COIL,AIR
			L2104	645 002 1534	INDUCTOR,8.2U K
			L2151	645 037 2377	TRANS,ANT,796KHZ
			L2153	645 040 2739	TRANS,OSC,796KHZ
			L2451	645 001 4581	INDUCTOR,100U K
			L4181	645 002 1459	INDUCTOR,22U K
			L4182	645 002 1459	INDUCTOR,22U K
			L4183	645 034 7887	INDUCTOR,1000 OHM
MAIN,AMP-TUNER P.W.BOARD ASSY					
REF.NO.	PART NO.	DESCRIPTION			
73	614 329 5617	ASSY,PWB,MAIN,A MP-TUNER(Only initial)			

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
or	645 020 1813	INDUCTOR,1000 OHM	Q4500	405 151 6107	TR KRA107S
or	645 045 7869	IMPEDANCE,1000 OHM P	or	405 141 5707	TR DTA114YKA
L4281	645 002 1459	INDUCTOR,22U K	Q4501	405 151 6107	TR KRA107S
L4282	645 002 1459	INDUCTOR,22U K	or	405 141 5707	TR DTA114YKA
L4283	645 034 7887	INDUCTOR,1000 OHM	Q4600	405 141 3703	TR KTA1271-Y
or	645 020 1813	INDUCTOR,1000 OHM	or	405 008 2405	TR 2SB698-F
or	645 045 7869	IMPEDANCE,1000 OHM P	or	405 008 2504	TR 2SB698-G
L4600	645 006 1523	INDUCTOR,470U J	Q4601	405 143 0007	TR KRC107M
L4601	645 006 1523	INDUCTOR,470U J	or	405 000 3806	TR DTC114YS
L4602	645 037 2858	CORE,PIPE	Q4602	405 151 4905	TR KTC3200-GR
L4603	645 006 1523	INDUCTOR,470U J	or	405 151 5001	TR KTC3200-BL
L4604	645 037 2858	CORE,PIPE	or	405 011 1907	TR 2SC1627-Y
L4800	△ 645 048 4469	INDUCTOR,22U	Q4603	405 141 3307	TR KTC3198-GR
or	△ 645 045 8613	INDUCTOR,10U	Q4830	405 141 3109	TR KTC3203-Y
L4801	△ 645 065 9362	INDUCTOR,95U	or	405 024 9907	TR 2SD734-F
L4802	△ 645 048 4469	INDUCTOR,22U	or	405 025 0200	TR 2SD734-G
or	△ 645 045 8613	INDUCTOR,10U	Q4850	△ 405 158 2102	TR KTC2026-Y
L4811	△ 645 065 9362	INDUCTOR,95U	or	△ 405 138 6403	TR KTD2058Y
L4812	△ 645 048 4469	INDUCTOR,22U	or	△ 405 095 1602	TR 2SD2061-E
or	△ 645 045 8613	INDUCTOR,10U	or	△ 405 095 1701	TR 2SD2061-F
L4820	645 034 7887	INDUCTOR,1000 OHM	Q4851	405 141 3208	TR KTC3198-Y
or	645 020 1813	INDUCTOR,1000 OHM	or	405 141 3307	TR KTC3198-GR
or	645 045 7869	IMPEDANCE,1000 OHM P	or	405 019 2708	TR 2SC536-F-NP
LUG01	645 006 4425	FIXER	or	405 019 3804	TR 2SC536-G-NP
LUG02	645 006 4425	FIXER	Q4860	405 141 3703	TR KTA1271-Y
LUG20	645 023 8987	FIXER	or	405 008 2405	TR 2SB698-F
PR480	△ 645 042 2683	PROTECTOR,3A 125V	or	405 008 2504	TR 2SB698-G
PR481	△ 645 042 2645	PROTECTOR,1.25A 125V	Q4861	405 141 3703	TR KTA1271-Y
PR482	△ 645 042 2683	PROTECTOR,3A 125V	or	405 008 2405	TR 2SB698-F
PR483	△ 645 042 2553	PROTECTOR,0.63A 125V	or	405 008 2504	TR 2SB698-G
Q2201	405 151 4202	TR KTC3193-O	Q4862	405 143 0007	TR KRC107M
or	405 151 4103	TR KTC3193-Y	or	405 000 3806	TR DTC114YS
or	405 016 0806	TR 2SC2839-E	Q4863	405 143 0007	TR KRC107M
Q2450	405 143 8706	TR KTC3199-GR	or	405 000 3806	TR DTC114YS
or	405 017 9600	TR 2SC3330-T	R4141	△ 402 096 5103	RESISTOR 3.3 J- 1/2W
or	405 017 9709	TR 2SC3330-U	R4241	△ 402 096 5103	RESISTOR 3.3 J- 1/2W
or	405 011 8500	TR 2SC1740S-R	R4822	△ 402 096 4106	FUSIBLE RES 27 JA 1/4W
or	405 011 8609	TR 2SC1740S-S	S2001	645 023 5795	SWITCH,LEVER
Q2451	405 151 5209	TR KRA107M	SA401	411 021 6405	SCR S-TPG BIN 3X8
or	405 000 0904	TR DTA114YS	SA402	411 021 6405	SCR S-TPG BIN 3X8
or	405 078 2404	TR BN1A4P	SG201	645 055 3202	SURGE-ABSORBER
or	405 036 3702	TR 2SA1564	SG202	645 055 3202	SURGE-ABSORBER
Q4100	405 151 4400	TR KTD1303	T2002	645 046 2023	FILTER,450KHZ
or	405 021 0204	TR 2SD1012-F-SPA	X2451	645 023 4965	OSC,CRYSTAL 7.2MHZ
or	405 021 0600	TR 2SD1012-G-SPA	XF211	645 026 2975	FILTER,BP 108MHZ
or	405 033 6706	TR 2SD1468S-R	or	614 252 1045	FILTER,LC
or	405 033 6805	TR 2SD1468S-S	or	645 059 0047	FILTER,BP
Q4101	405 143 0007	TR KRC107M	XF221	645 010 7665	CERAMIC FILTER 10.70MHZ
or	405 000 3806	TR DTC114YS	or	645 054 1223	CERAMIC FILTER 10.70MHZ
Q4151	405 151 4400	TR KTD1303	or	614 231 0199	FILTER
or	405 021 0204	TR 2SD1012-F-SPA	or	614 030 5074	I.F FILTER
or	405 021 0600	TR 2SD1012-G-SPA	XF222	645 010 7665	CERAMIC FILTER 10.70MHZ
or	405 033 6706	TR 2SD1468S-R	or	645 054 1223	CERAMIC FILTER 10.70MHZ
or	405 033 6805	TR 2SD1468S-S	or	614 231 0199	FILTER
Q4200	405 151 4400	TR KTD1303	or	614 030 5074	I.F FILTER
or	405 021 0204	TR 2SD1012-F-SPA	XF231	645 059 0054	CERAMIC FILTER 450KHZ
or	405 021 0600	TR 2SD1012-G-SPA	or	645 041 9324	CERAMIC FILTER 450KHZ
or	405 033 6706	TR 2SD1468S-R	XF233	645 039 9923	TRANS,IF 10.7MHZ
or	405 033 6805	TR 2SD1468S-S	or	645 040 9981	TRANS,IF 10.7MHZ
Q4201	405 143 0007	TR KRC107M			
or	405 000 3806	TR DTC114YS			
Q4251	405 151 4400	TR KTD1303			
or	405 021 0204	TR 2SD1012-F-SPA			
or	405 021 0600	TR 2SD1012-G-SPA			
or	405 033 6706	TR 2SD1468S-R			
or	405 033 6805	TR 2SD1468S-S			
Q4400	405 141 3208	TR KTC3198-Y			
or	405 141 3307	TR KTC3198-GR			
or	405 019 2708	TR 2SC536-F-NP			
or	405 019 3804	TR 2SC536-G-NP			
Q4410	405 141 3505	TR KTA1266-Y			
or	405 141 3406	TR KTA1266-GR			
or	405 004 4502	TR 2SA608-F-NP			
or	405 004 5004	TR 2SA608-G-NP			

POWER SUPPLY P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	614 329 5679	ASSY,PWB,DG(Only initial)
C4905	△ 403 349 3303	CERAMIC 0.01U M 250V
or	△ 403 366 7803	CERAMIC 0.01U M 250V
C4914	403 325 0302	ELECT 2200U M 25V
CN490	614 310 2489	PLUG,7P
or	645 006 0861	PLUG,7P
D4900	△ 407 098 3300	DIODE RL153-BF-S2
D4901	△ 407 098 3300	DIODE RL153-BF-S2
D4902	△ 407 098 3300	DIODE RL153-BF-S2
D4903	△ 407 098 3300	DIODE RL153-BF-S2
D4904	△ 407 097 8009	DIODE MPG06G
D4910	△ 407 097 8009	DIODE MPG06G

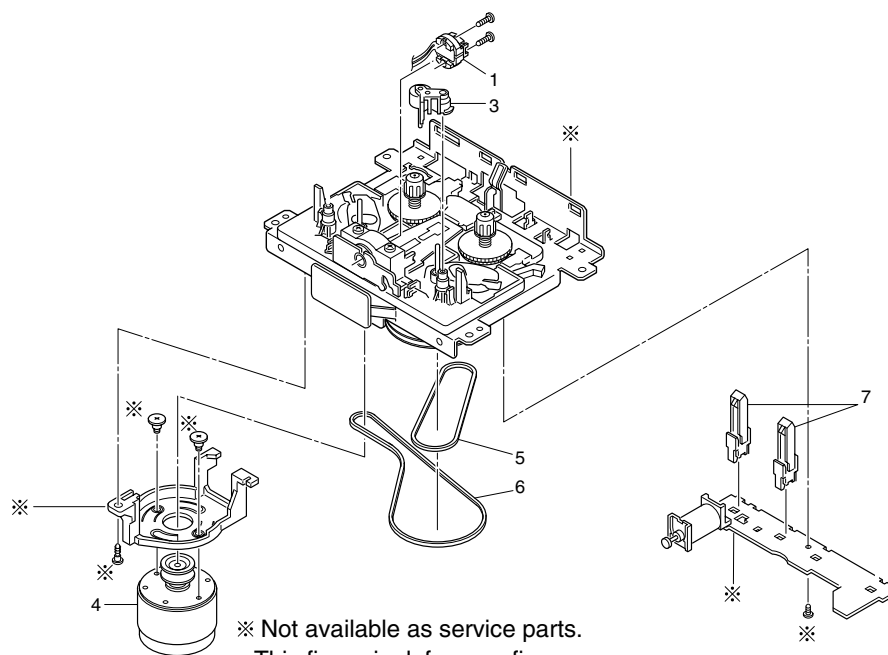
PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
D4911	△ 407 097 8009	DIODE MPG06G
D4912	△ 407 097 8009	DIODE MPG06G
D4913	△ 407 097 8009	DIODE MPG06G
D4914	△ 407 097 8009	DIODE MPG06G
D4920	407 012 4406	DIODE 1SS133
IC490	△ 409 463 6701	IC KIA7805API
L4900	△ 645 041 3087	INDUCTOR,180U
or	△ 645 038 6053	INDUCTOR,181U
PA001	△ 614 086 2164	COVER,FOR C4905
Q4920	405 143 8706	TR KTC3199-GR
or	405 017 9600	TR 2SC3330-T
or	405 017 9709	TR 2SC3330-U
or	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
RY491	△ 645 059 0306	RELAY,PRIMARY
or	△ 645 030 5597	RELAY,PRIMARY
T4910	△ 645 057 9110	TRANS,POWER
WR490	614 017 8203	TERMINAL BOARD
WR491	614 017 8203	TERMINAL BOARD

SCART P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
75	614 329 5624	ASSY,PWB,SCART(Only initial)
CN301	614 310 2663	PLUG,10P
or	645 006 0977	PLUG,10P
CN302	645 041 8433	SOCKET,RGB 21P
D3000	407 206 5608	ZENER DIODE UDZS10B
D3001	407 206 5608	ZENER DIODE UDZS10B
D3002	407 206 5608	ZENER DIODE UDZS10B
L3001	645 001 4550	INDUCTOR,10U K
L3002	645 001 4550	INDUCTOR,10U K
L3003	645 001 4550	INDUCTOR,10U K
SG302	645 055 3202	SURGE-ABSORBER
SG303	645 055 3202	SURGE-ABSORBER
SG304	645 055 3202	SURGE-ABSORBER
SG305	645 055 3202	SURGE-ABSORBER
SG306	645 055 3202	SURGE-ABSORBER
SG307	645 055 3202	SURGE-ABSORBER
SG308	645 055 3202	SURGE-ABSORBER
SH601	614 314 0733	SHIELD,SHIELD

EXPLODED VIEW (TAPE DECK MECHANISM)

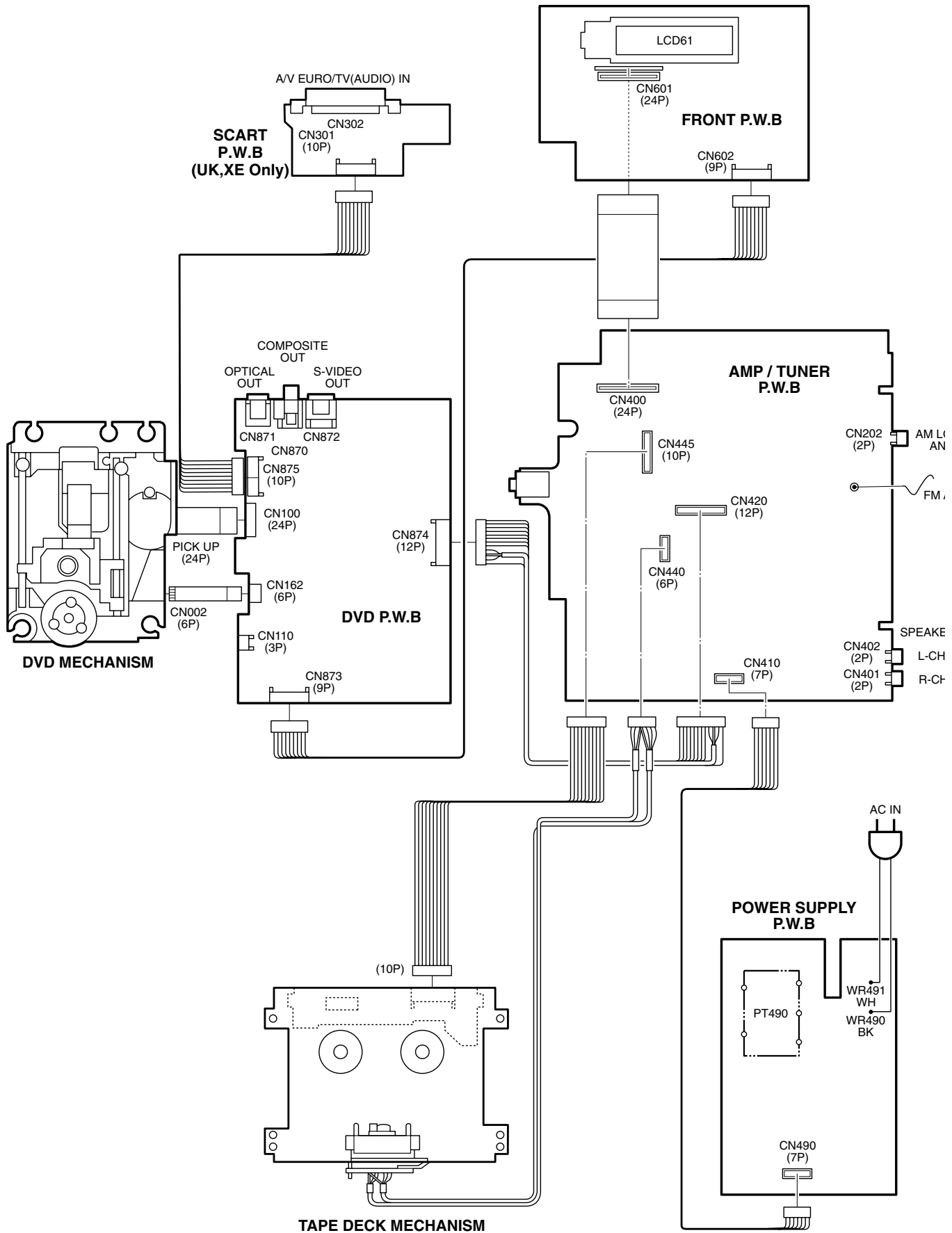


PARTS LIST

DECK MECHANISM ASSY

REF.NO.	PART NO.	DESCRIPTION
	614 329 8441	ASSY,MECHA,TM-PT70TN-SH
1	645 052 2888	RP HEAD C-9142-BD-1025
3	645 010 9447	PINCH ROLLER(F) ASSY
4	645 067 2934	ASSY,MOTOR
5	645 045 1959	RF BELT
6	645 052 4158	MAIN BELT
7	645 045 2048	DETECT SWITCH MXS01190

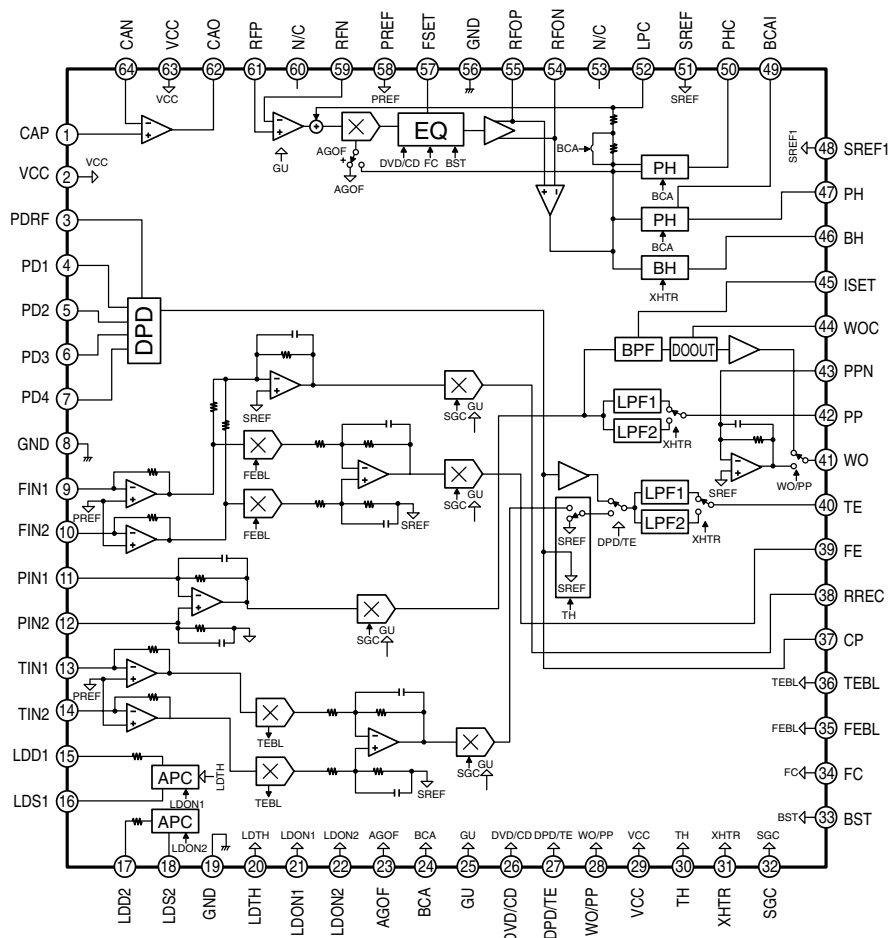
WIRING CONNECTION



This is a basic wiring connection.

IC BLOCK DIAGRAM & DESCRIPTION

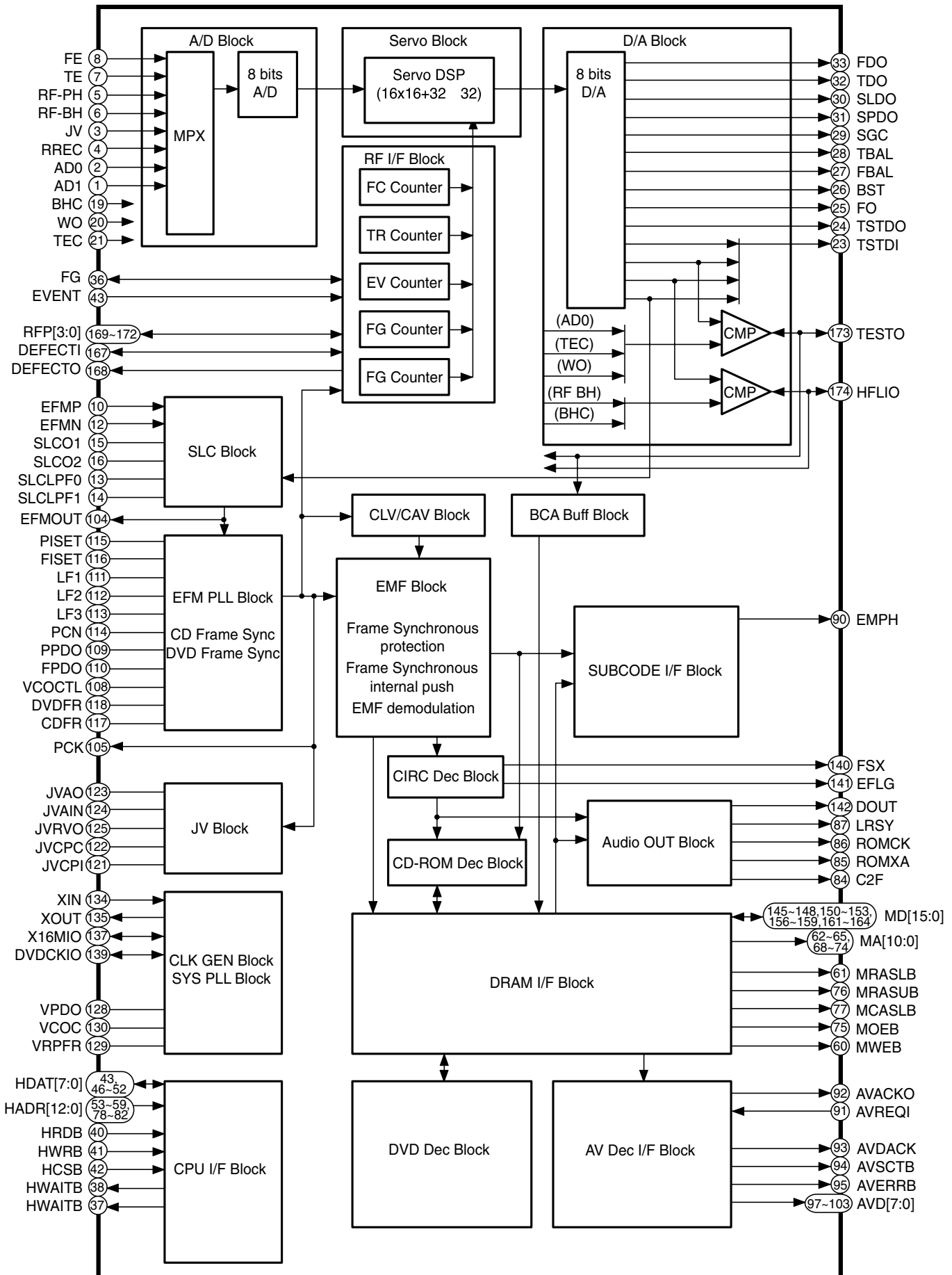
IC100 LA9703WL-MPB (DVD Player Frontend Processor)



Terminal No.	Symbole	Functions	Terminal No	Symbole	Functions
1	CAP	Customer OP amp. + input	33	BST	EQL boost adjusting
2	VCC	Power supply (For DPD)	34	FC	EQL I/O control
3	PDRF	Pickup signal input	35	FEBL	FE balance adjusting
4	PD1	Pickup signal input	36	TEBL	TE balance adjusting
5	PD2	Pickup signal input	37	CP	Charge pump gain setting resistor, condenser connect
6	PD3	Pickup signal input	38	RREC	Peflection output
7	PD4	Pickup signal input	39	FE	Focus error output
8	GND	Ground (For DPD)	40	TE	Tracking error output
9	FIN1	Pickup signal input	41	WO	WO/push-pull output
10	FIN2	Pickup signal input	42	PP	Push/pull output
11	PIN1	Pickup signal input	43	PPN	Push/pull gain setting resistor connect
12	PIN2	Pickup signal input	44	WOC	DC cut capacity connect
13	TIN1	Pickup signal input	45	ISET	BPF center frequency setting resistor connect
14	TIN2	Pickup signal input	46	BH	RF bottom detection output
15	LDD1	APC 1 output	47	PH	RF peak detection output
16	LDS1	APC 1 monitor input	48	SREF1	SREF setting
17	LDD2	APC 2 output	49	BCAI	Peak hold detection setting resistor connect (When SCA)
18	LDS2	APC 2 monitor input	50	PHC	RF-AGC PH detection condenser connect
19	GND	Ground (Servo system)	51	SREF	Servo signal voltage reference output
20	LDTH	APC 1 threshold change	52	LPC	RE DC servo condenser connect
21	LDON1	APC 1 laser ON	53	N/C	N/C
22	LDON2	APC 2 laser ON	54	RFON	RF - output
23	AGOF	RFAGC OFF	55	RFOP	RF + output
24	BCA	PH discharge coefficient change	56	GND	Ground (RF system)
25	GU	RF, servo signal gain up	57	FSET	EQL frequency setting resistor connect
26	DVD/CD	RF, EQL band change	58	PREF	Voltage reference output (For pick)
27	DPD/TE	TE output change	59	RFN	RF signal - input
28	WO/PP	WO output change	60	N/C	N/C
29	VCC	Power supply (Servo system)	61	RFP	RF signal + input
30	TH	Tracking hold (H:hold)	62	CAO	Customer OP amp. output
31	XHTR	Tracking bottom band change (High band)	63	VCC	Power supply (RF system)[
32	SGC	Servo gain control (RREC, FE, PP, TE)	64	CAN	Customerm OP amp. - input

IC BLOCK DIAGRAM & DESCRIPTION

IC130 LC78663NRW (DSP)

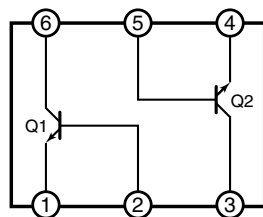


IC BLOCK DIAGRAM & DESCRIPTION

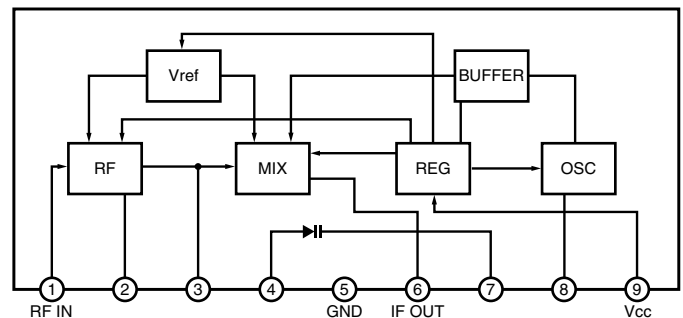
IC130 LC78663NRW (DSP)

Block	NO.	Pin Name	I/O	Supplementation		Block	NO.	Pin Name	I/O	Supplementation		
A/D	1	AD1	I	Servo A/D AD1		Microcom- puter I/F	45	DVSS		Digital GND		
	2	AD0	I	Servo A/D AD0			46	HDAT1	I/O	Data bus 1		
	3	JV	I	Servo A/D JV			47	HDAT2	I/O	Data bus 2		
	4	RREC	I	Servo A/D RREC			48	HADT3	I/O	Data bus 3		
	5	RF-PH	I	Servo A/D RF-PH			49	HADT4	I/O	Data bus 4		
	6	RF-RH	I	Servo A/D RF-BH			50	HDAT5	I/O	Data bus 5		
	7	TE	I	Servo A/D TE			51	HDAT6	I/O	Data bus 6		
	8	FE	I	Servo A/D FE			52	HADT7	I/O	Data bus 7		
TEST pin	9	TEST0	I	Test input 0 (Input "L" level)			53	HADR0	I	Address bus 0		
SLC	10	EFMINP	I	EFM/EFM+ Input			54	HADR1	I	Address bus 1		
TEST pin	11	TEST1	I	Test input 1 (Input "L" Input)			55	HADR2	I	Address bus 2		
	12	EFMINN	I	EFM- Input			56	HADR3	I	Address bus 3		
	13	SLCLPF0	-	SLC			57	HADR4	I	Address bus 4		
	14	SLCLPF1	-	SLC			58	HADR5	I	Address bus 5		
	15	SLCO1	-	SLC			59	HADR6	I	Address bus 6		
Power supply	16	SLCO2	-	SLC			DRAM I/F	60	MWEB	O	WE Output	
	17	AVDDI	-	A/D D/A SLC Power source [Analogue 3.3V]		61		MRASIB	O	RAS Output I		
	18	AVSS	-	Analogue GND		62		MA0	O	DRAM Address bus 0		
	19	BHC	I	Comparator input (RE-BH)		63		MA1	O	DRAM Address bus 1		
CMP	20	WO	I	Comparator input		64		MA2	O	DRAM Address bus 2		
	21	TEC	I	Comparator input (TE)		65		MA3	O	DRAM Address bus 3		
D/A	22	VREF	O	Sarvo D/A Voltage reference		NC	66	NC		NC pin which set,"H" or "L" (662; DRAM Power ssupply [Digital 3.3V])		
	23	TSTD1	O	Sarvo D/A			67	NC	-	NC pin which set,"H" or "L" (662;Digital GND)		
	24	TSTD0	O	Sarvo D/A TSTD0			DRAM I/F	68	MA4	O	DRAM Address bus 4	
	25	FO	O	Sarvo D/A FO				69	MA5	O	DRAM Address bus 5	
	26	BST	O	Sarvo D/A BST				70	MA6	O	DRAM Address bus 6	
	27	TBAL	O	Sarvo D/A TBAL				71	MA7	O	DRAM Address bus 7	
	28	FBAL	O	Sarvo D/A FBAL				72	MA8	O	DRAM Address bus 8	
	29	SGC	O	Sarvo D/A SGC				73	MA9	O	DRAM Address bus 9	
	30	SLDO	O	Sarvo D/A SLDO				74	MA10	O	DRAM Address bus 10	
	31	SPDO	O	Sarvo D/A SPDO				75	MOEB	O	OE Output	
	32	TDO	O	Sarvo D/A TDO		76		MCASUB	O	CAS Output (Upper Byte)		
	33	FDO	O	Sarvo D/A FDO		77		MCASLB	O	CAS Output (Lower Byte)		
Power supply	34	DVDDO	-	Internal logic power source [Digital 2.5V]		Microcom- puter I/F	78	HADR7	I	Address bus 7		
	35	DVSS	-	Digital GND			79	HADR8	I	Address bus 8		
RF I/F	36	FG	I/O	FG Counter input	General-purpose port in/output		80	HADR9	I	Address bus 9		
Microcom- puter I/F	37	HIRQB	O	Interrupt signal output			CD data	81	HADR10	I	Address bus 10	
	38	HWAITB	I	Wait signal output				82	HADR11	I	Address bus 11	
	39	HRESB	I	Servo reset input				83	HADR12	I	Address bus 12 Buffer memory access selector	
	40	HRDB	I	Reag reset input		84		C2F	O	C2 flag output Monitor pin 4		
	41	HWRB	I	Write signsl input		85		ROMXA	O	CD data output Monitor pin 3		
	42	HCSB	I	Chip select signal input		86		ROMCK	O	CD dast output shift clock output Monitor pin 2		
Power supply	43	HDATO	I/O	DTA BUS 0			87	LRSY	O	CD data output L/R clock output Monitor pin 1		
	44	DVDD1	-	I/O Power source [Digital 3.3V]			88	DVDD1	-	I/O power source		
							89	DVSS		Digital GND		
						CD data	90	EMPH	O	Deemphasis monitor pin Monitor pin 0		

IC101,102 KTC801U(Switching Transistor)



IC211 LA1186N(OSC & AFC)



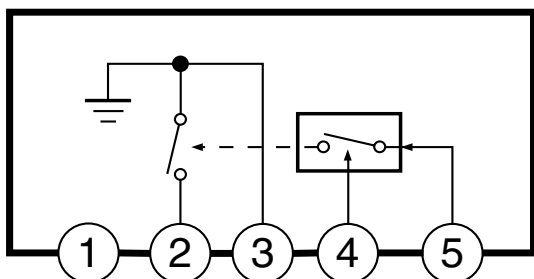
IC BLOCK DIAGRAM & DESCRIPTION

IC130 LC78663NRW (DVD/CD Servo Controller)

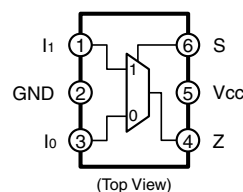
Block	NO.	Pin name	I/O	Supplementation	Block	NO.	Pin name	I/O	Supplementation	
AV data I/F	91	AVREQI	I	AV data requirement flag input	System CLK	137	X16MIO	I/O	External 16MHz output	
	92	AVACKO	O	AV data read strobe output		138	TEST2	I	Test input 2 (Input; "L" level set)	
	93	AVDACK	O	AV data read output		139	DVDCKIO	I/O	External DVD clock input	
	94	AVSCTB	O	AV output selector synchronization outpun	Moniter	140	FSX	O	CD1 frame synchronization signal	Monitor 6
	95	AVERRB	O	AV data reliable flag output		141	EFLG	O	Error correction C1,C2 correction conditions monitor oins	Monitor 5
	96	AVD0	O	AV data bus 0		142	DOUT	O	Audio EIAJ data output	Monitor 7
	97	AVD1	O	AV data bus 1	CD data	143	DVDD1	-	I/O power supply [Digital 3.3V]	
	98	AVD2	O	AV data bus 2		144	DVSS	-	Digital GND	
	99	AVD3	O	AV data bus 3		145	MD8	I/O	DRAM data bus 8	
	100	AVD4	O	AV data bus 4	Power supply	146	MD9	I/O	DRAM data bus 9	
	101	AVD5	O	AV data bus 5		147	MD10	I/O	DRAM data bus 10	
	102	AVD6	O	AV data bus 6		148	MD11	I/O	DRAM data bus 11	
	103	AVD7	O	AV data bus 7	DRAM I/F	149	NC		NC pin which set "H" or "L" (662;Digital GND)	
RF I/F	104	EFMOUT	O	EFM 2 value signal output		150	MD12	I/O	DRAM data bus 12	
	105	PCK	O	EFM playback shift clock output		151	MD13	I/O	DRAM data bus 13	
Power supply	106	DVDD0	-	Internal logic power source [Digital 2.5V]	DRAM I/F	152	MD14	I/O	DRAM data bus 14	
	107	DVSS	-	Digital GND		153	MD15	I/O	DRAM data bus 15	
EFM PLL	108	VCOCTL	-	VCO filter connect		NC	154	NC	-	NC pin which set "H" or "L" (662;Digital GND)
	109	PPDO	-	Phase comparison filter connect	155		NC	-	NC pin which set "H" or "L" (662;DRAM power source [Digital 3.3V])	
	110	FPDO	-	Frequency comparison filter connect	156		MD0	I/O	DRAM data bus 0	
	111	LF1	-	Filter connect 1	DRAM I/F	157	MD1	I/O	DRAM data bus 1	
	112	LF2	-	Filter connect 2		158	MD2	I/O	DRAM data bus 2	
	113	LF3	-	Filter connect 3		159	MD3	I/O	DRAM data bus 3	
	114	PCN	-	Voltage monitor pin(Phase comparson charge pump PCH control voltage)	NC	160	NC	-	NC pin which set "H" or "L" (662;DRAM power source [Digital 3.3V])	
	115	PISET	-	Current setting pin for the constant current phase comparison charge pump		161	MD4	I/O	DRAM data bus 4	
	116	FISSET	-	Current setting pin for the constant frequncy comparison charge pump		162	MD5	I/O	DRAM data bus 5	
	117	CDFR	-	EFM playback VCO oscillator range setting pin [CD]	DRAM I/F	163	MD6	I/O	DRAM data bus 6	
118	DVDFR	-	EFM playback VCO oscillator range setting pin [DVD]	164		MD7	I/O	DRAM data bus 7		
Power supply	119	AVDD2	-	EFM PLL JV power supply [Analog 3.3V]		Power supply	165	DVDD1		I/O power supply [Digital 3.3V]
	120	AVSS	-	Analog GND	166		DVSS		Digital GND	
JV	121	JVCPI	-	JV control			167	DEFECTI	I/O	Defect signal input
	122	LVCPC	-	JV control		168	DEFECTO	O	Defect signal output	
	123	JVAO	O	EFM playback PLL clock jitter output		169	RFP0	I/O	RF general-ourpose port I/O 0	WRQ output
	124	JVAIN	-	JV control	RF I/F	170	RFP1	I/O	RF general-ourpose port I/O 1	
	125	JVRVO	-	JV control		171	RFP2	I/O	RF general-ourpose port I/O 2	HBUSYB output
Power supply	126	AVDD3	-	SYSTEM PLL power supply [Analog 2.5V]		172	RFP3	I/O	RF general-ourpose port I/O 3	HFBUSYB output EVENT counter input
	127	AVSS	-	Analog GND		173	TESIO	I/O	Tracking margin signal I/O	
System CLK	128	VPDO	-	SYSTEM PLL filter connect		174	HFLIO	I/O	Mirror detast signal I/O	
	129	VRPFR	-	SYSTEM PLL VCO oscillator renge setting	Power supply	175	DVDD0		Internal logic power supply [Digital 2.5V]	
	130	VCOC	-	SYSTEM PLL filter connect		176	DVSS		Digital GND	
Power supply	131	DVDD0	-	Internal logic power source [Digital 2.5V]						
	132	DVSS	-	Digital GND						
Power supply	133	DVDD2	-	Oscillation circuit power source [Digital 3.3V]						
System CLK	134	XIN	I	Oscillation circuit input						
CLK	135	XOUT	O	Oscillation circuit output						
Power supply	136	DVSS	-	Digital GND						

* TEST0-2; "L" setting

IC443 BA7755A(Rec/Play Switch)



IC859 NC7SZ157P6(Multiplexer)

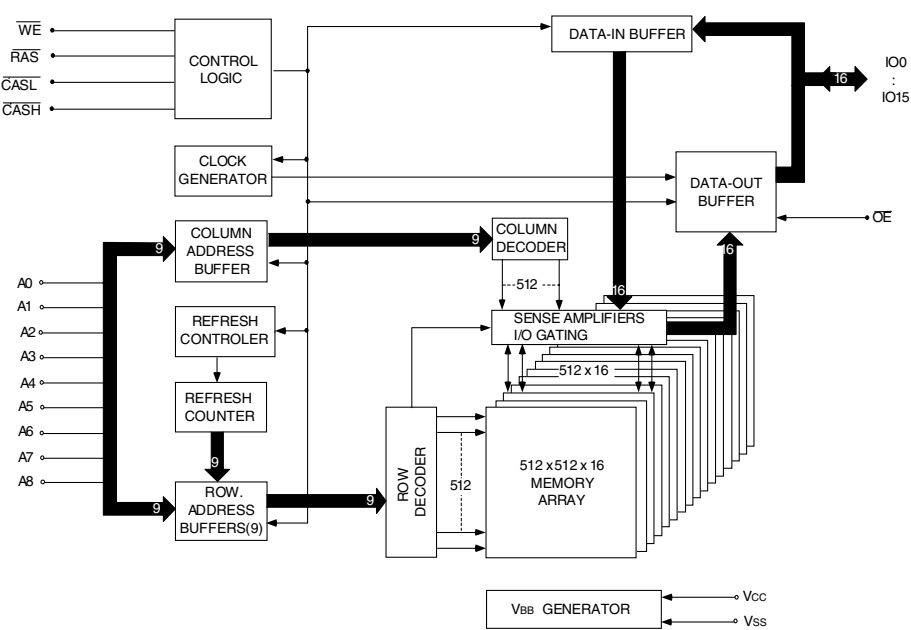


Pin Descriptions

Pin Name	Description
I ₀ , I ₁	Data Inputs
S	Control Inputs
Z	Output

IC BLOCK DIAGRAM & DESCRIPTION

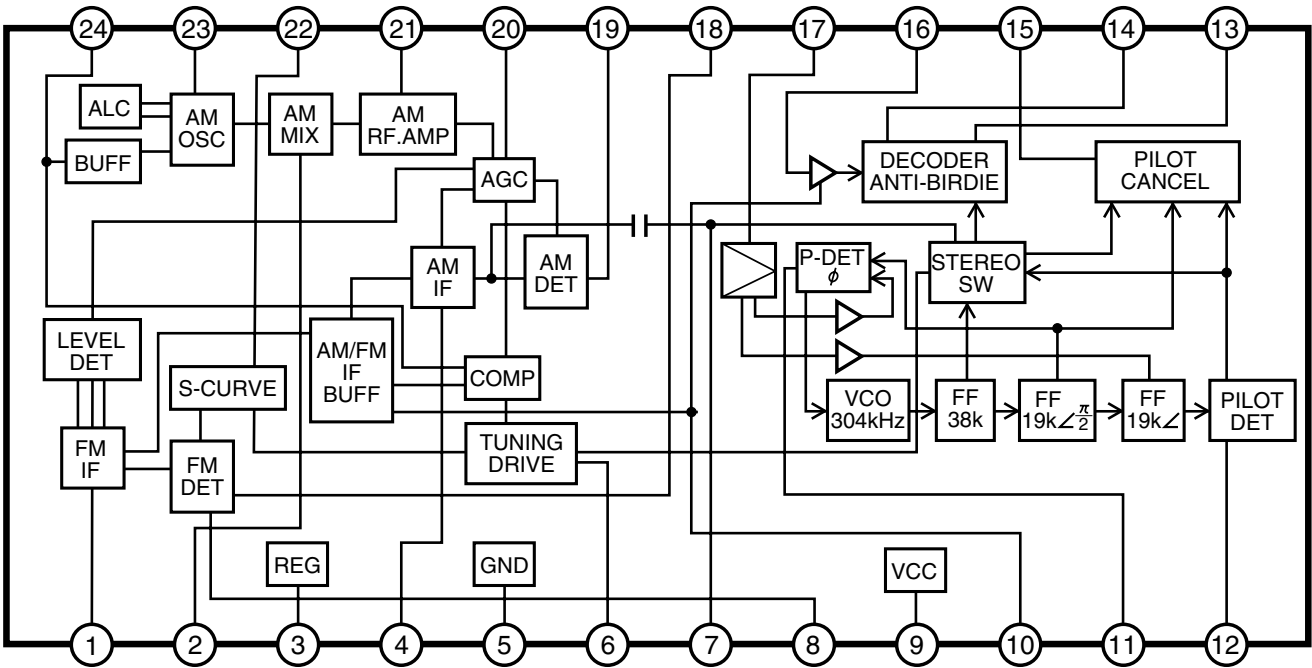
IC131 M11L416256SA-35T(256k x 16 DRAM)



PIN DESCRIPTIONS

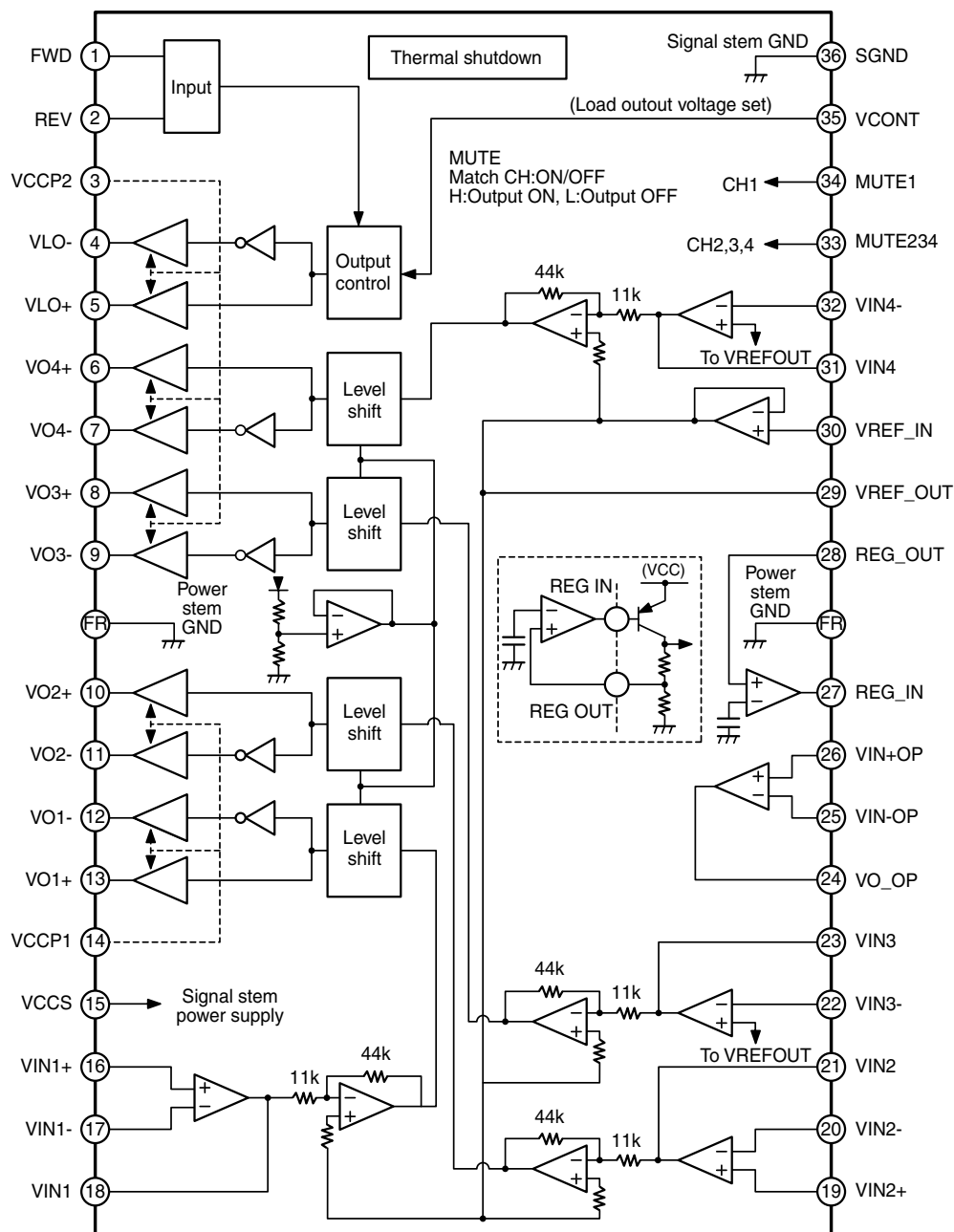
PIN NO.	PIN NAME	TYPE	DESCRIPTION
16~19,22~26	A0~A8	Input	Address Input Row Address : A0~A8 Column Address : A0~A8
14	$\overline{\text{RAS}}$	Input	Row Address Strobe
28	$\overline{\text{CASH}}$	Input	Column Address Strobe / Upper Byte Control
29	$\overline{\text{CASL}}$	Input	Column Address Strobe / Lower Byte Control
13	$\overline{\text{WE}}$	Input	Write Enable
27	$\overline{\text{OE}}$	Input	Output Enable
2~5,7~10,31~34,36~39	I/O0 ~ I/O15	Input / Output	Data Input / Output
1,6,20	VCC	Supply	Power, 3.3V
21,35,40	VSS	Ground	Ground
11,12,15,30	NC	-	No Connect

IC231 LA1844ML(AM/FM-ZF/MPX)



IC BLOCK DIAGRAM & DESCRIPTION

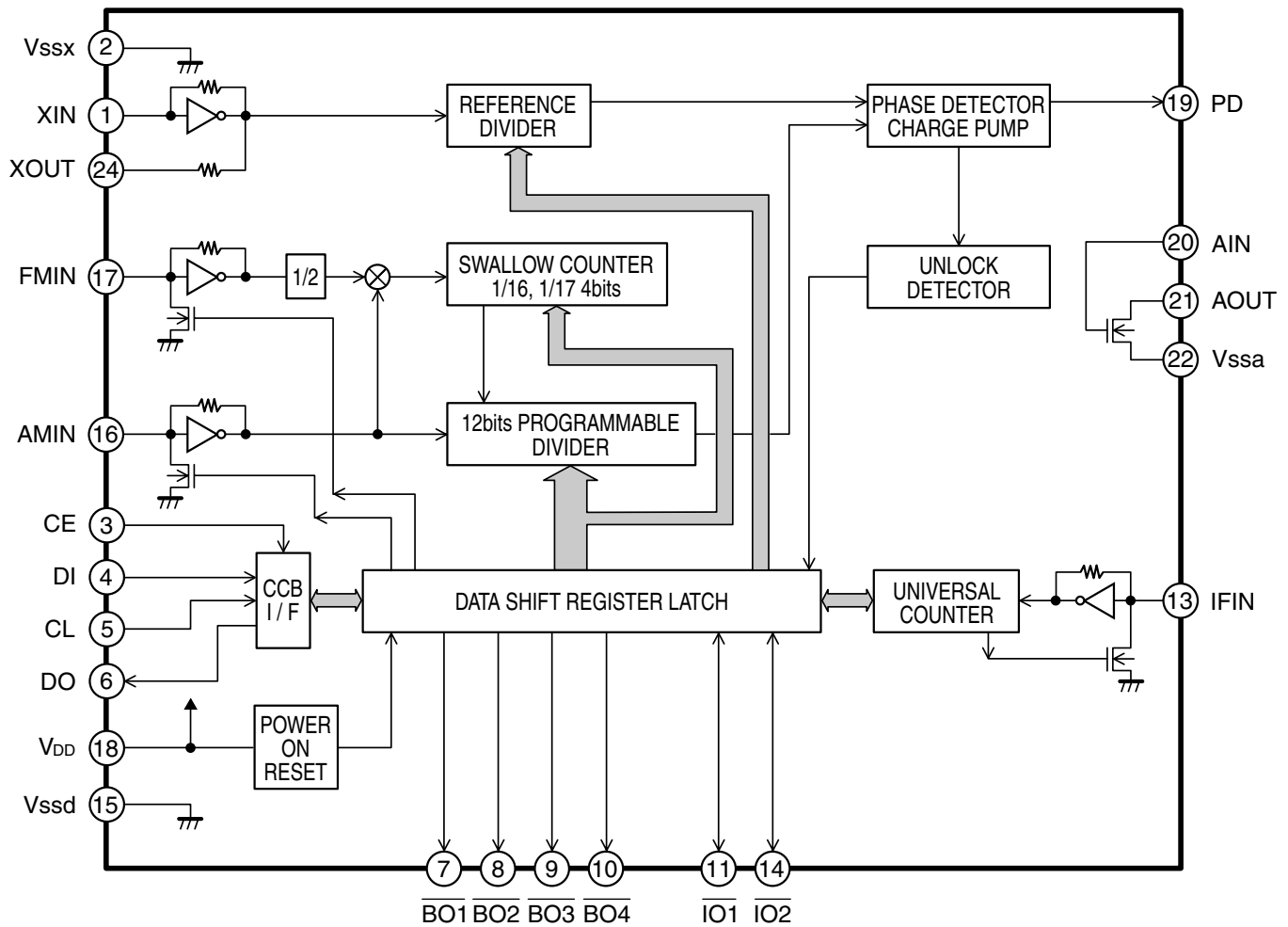
IC160 IKE80-E(Power Amp.)



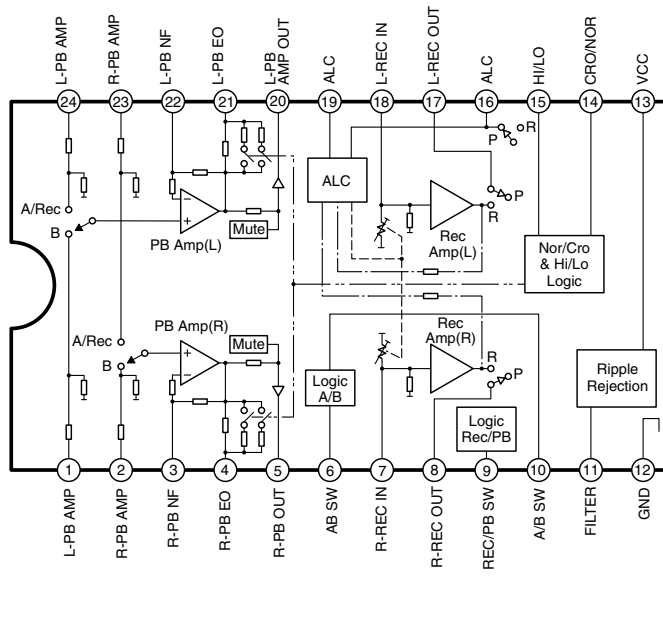
No.	Name	Function	No.	Name	Function
1	FWD	LOADING Output switching (FWD)、LOADING Logic input	19	VIN2+	CH2 Input、Input OP-AMP (+) Input
2	REV	LOADING Output switching (REV)、LOADING Logic input	20	VIN2-	CH2 Input、Input OP-AMP (-) Input
3	VCC2	CH34 LOADING Power supply	21	VIN2	CH2 Input、Input OP-AMP Output
4	VLO-	LOADING Output (-)	22	VIN3-	CH3 Input、Input OP-AMP (-) Input
5	VLO+	LOADING Output (+)	23	VIN3	CH3 Input、Input OP-AMP Output
6	VO4+	CH4 Output (+)	24	VO-OP	OP-AMP、Output
7	VO4-	CH4 Output (-)	25	VIN-OP	OP-AMP、(-) Input
8	VO3+	CH3 Output (+)	26	VIN+OP	OP-AMP、(+) Input
9	VO3-	CH3 Output (-)	27	REG_IN	Regulator, Error AMP Output External PNP transistor base
10	VO2+	CH2 Output (+)	28	REG_OUT	Regulator, Error AMP Input (+)
11	VO2-	CH2 Output (-)	29	VREF_OUT	VREF_AMP (Voltage follow-up) Output
12	VO1-	CH1 Output (-)	30	VREF_IN	VREF Input、External PNP transistor base
13	VO1+	CH1 Output (+)	31	VIN4	CH4 Input、Input OP-AMP Output
14	VCCP1	CH1、2 Power supply	32	VIN4-	CH4 Input、Input OP-AMP (-) Input
15	VCCS	Signal stem power supply	33	MUTE234	CH2、3、4 Output ON/OFF
16	VIN1+	CH1 Input、Input OP-AMP (+) Input	34	MUTE1	CH1 Output ON/OFF
17	VIN1-	CH1 Input、Input OP-AMP (-) Input	35	VCONT	LOADING Output (H Voltage) set
18	VIN1	CH1 Input、Input OP-AMP Output	36	S_GND	Signal stem GND

IC BLOCK DIAGRAM & DESCRIPTION

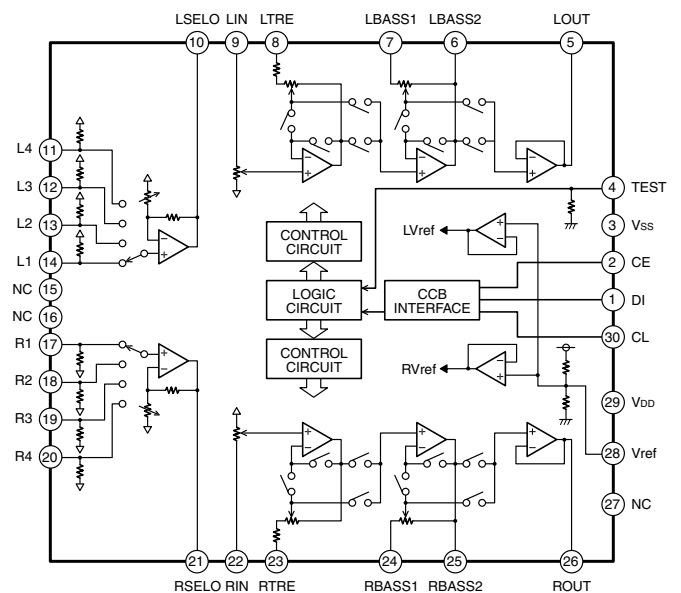
IC241 LC72121M-D(PLL Synthesizer)



IC440 AN7348K(Play/Rec Pre. Amp.)

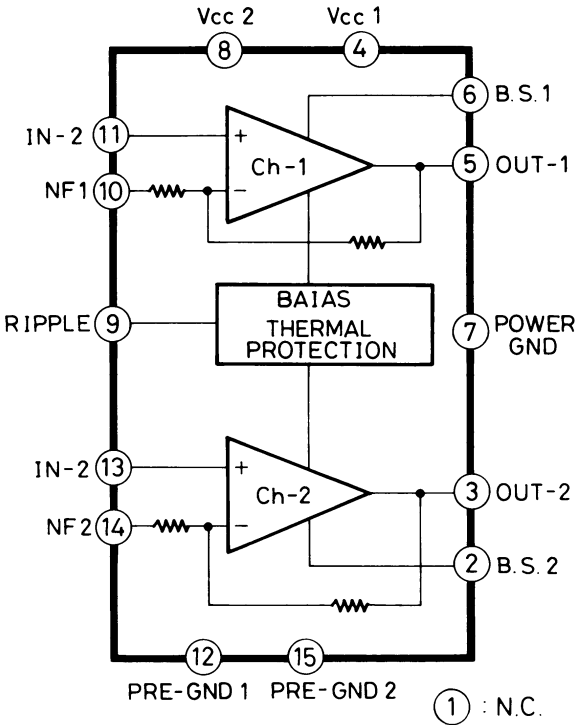


IC441 LC75342M(Electric Volume)

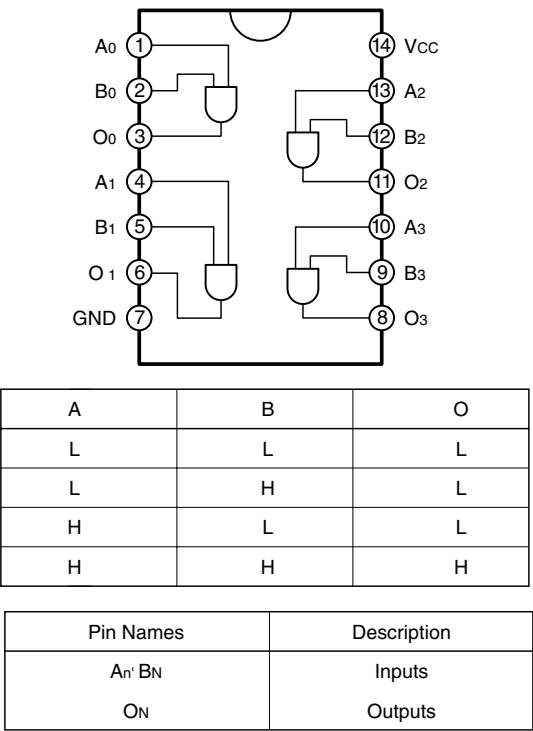


IC BLOCK DIAGRAM & DESCRIPTION

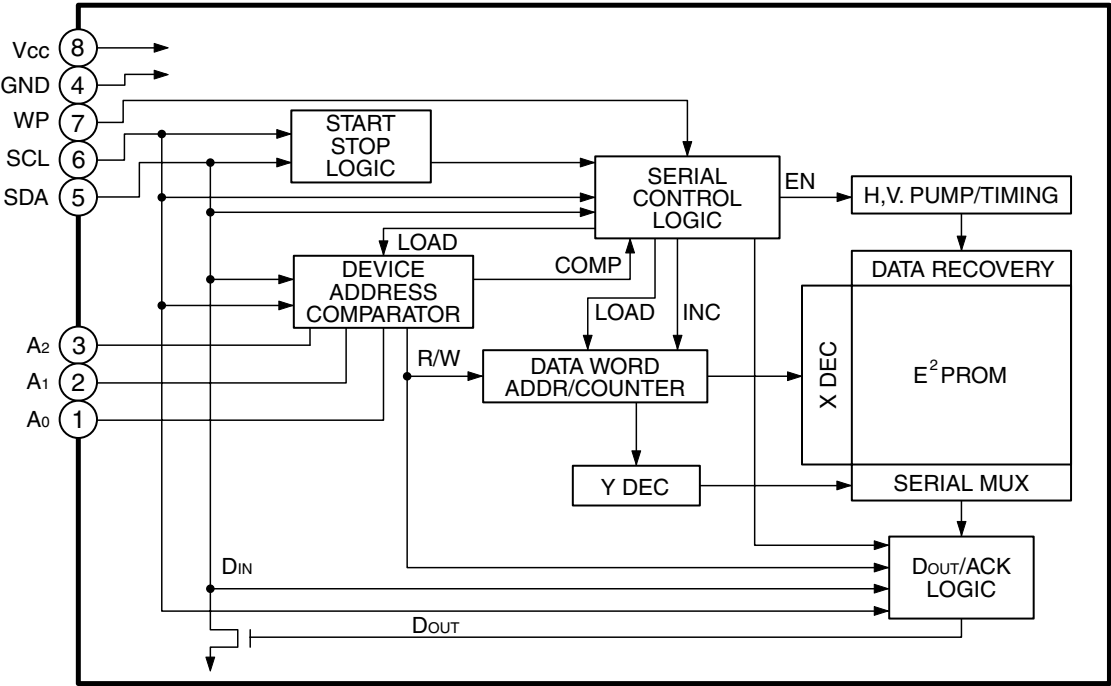
IC442 TA8223K(Power Amp.)



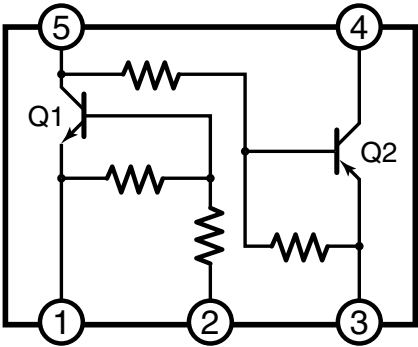
IC806 74VHCT08AMTCX(AND)



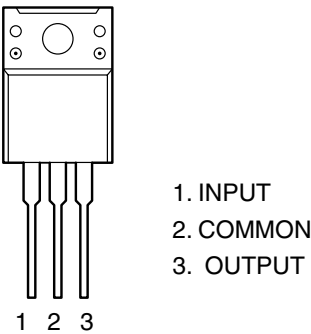
IC602,801 S524A40X21-SCT0(EEPROM)



IC881 KRX101U(Switching)

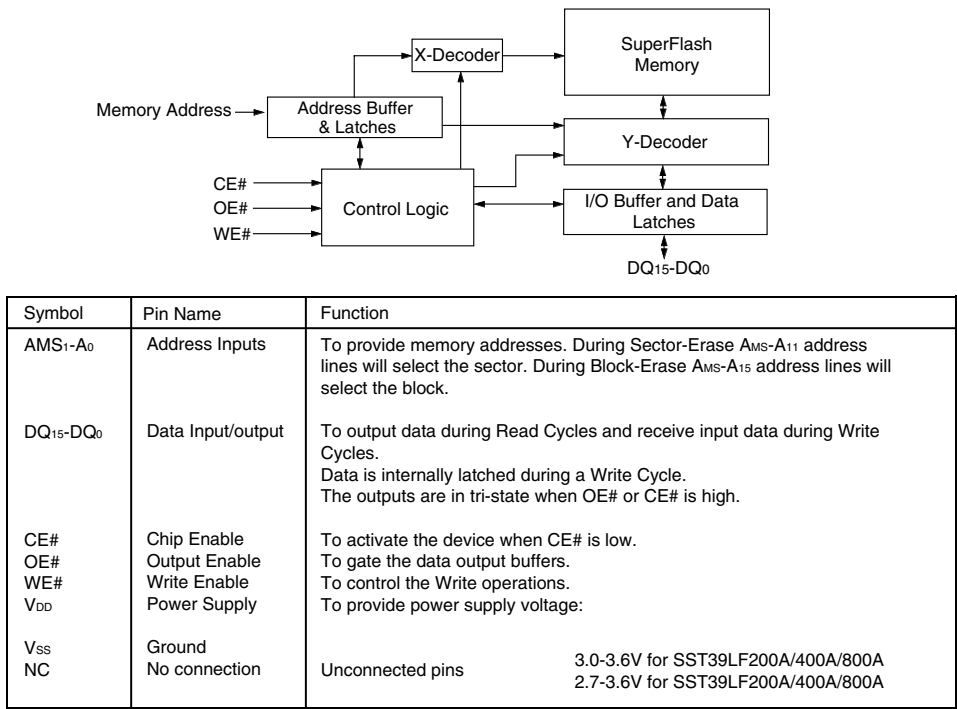


IC401 KIA7805API(Regulator)

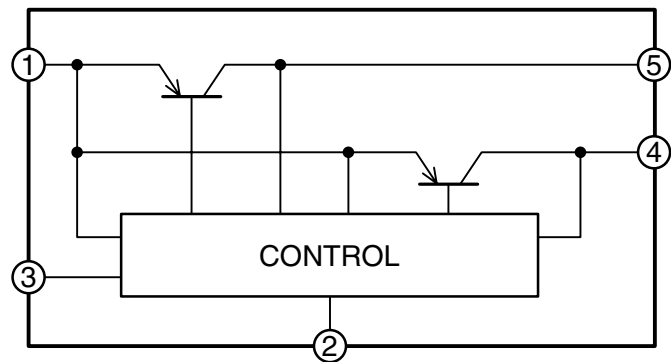


IC BLOCK DIAGRAM & DESCRIPTION

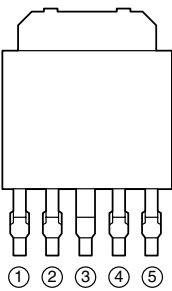
IC818 SST39VF800A-70-4C-EK(Flash Memory)



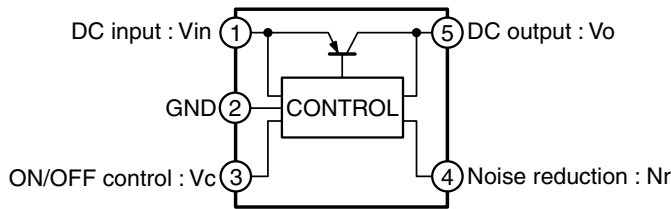
IC850 PQ2L2182MS(regulator)



IC851 PQ070XZ01Z(Regulator)



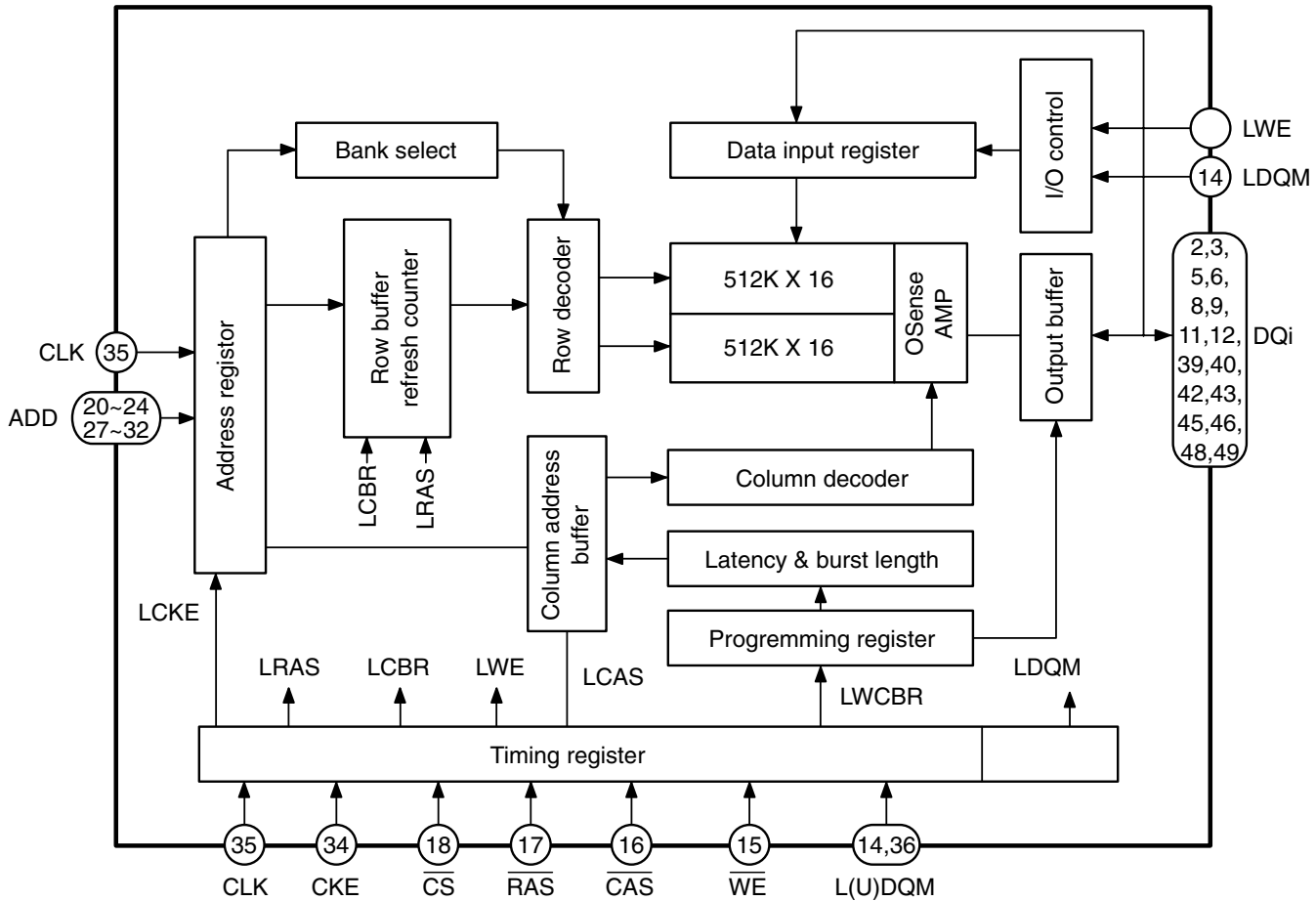
IC852 PQ1X501M2Z(Regulator)



Pin No.	Symbols	Description
1	V _{in}	DC INPUT
2	V _c	ON/OFF CONTROL
3	V _o	DC OUTPUT
4	V _{adj}	OUTPUT VOLTAGE ADJUSTMENT
5		GND

IC BLOCK DIAGRAM & DESCRIPTION

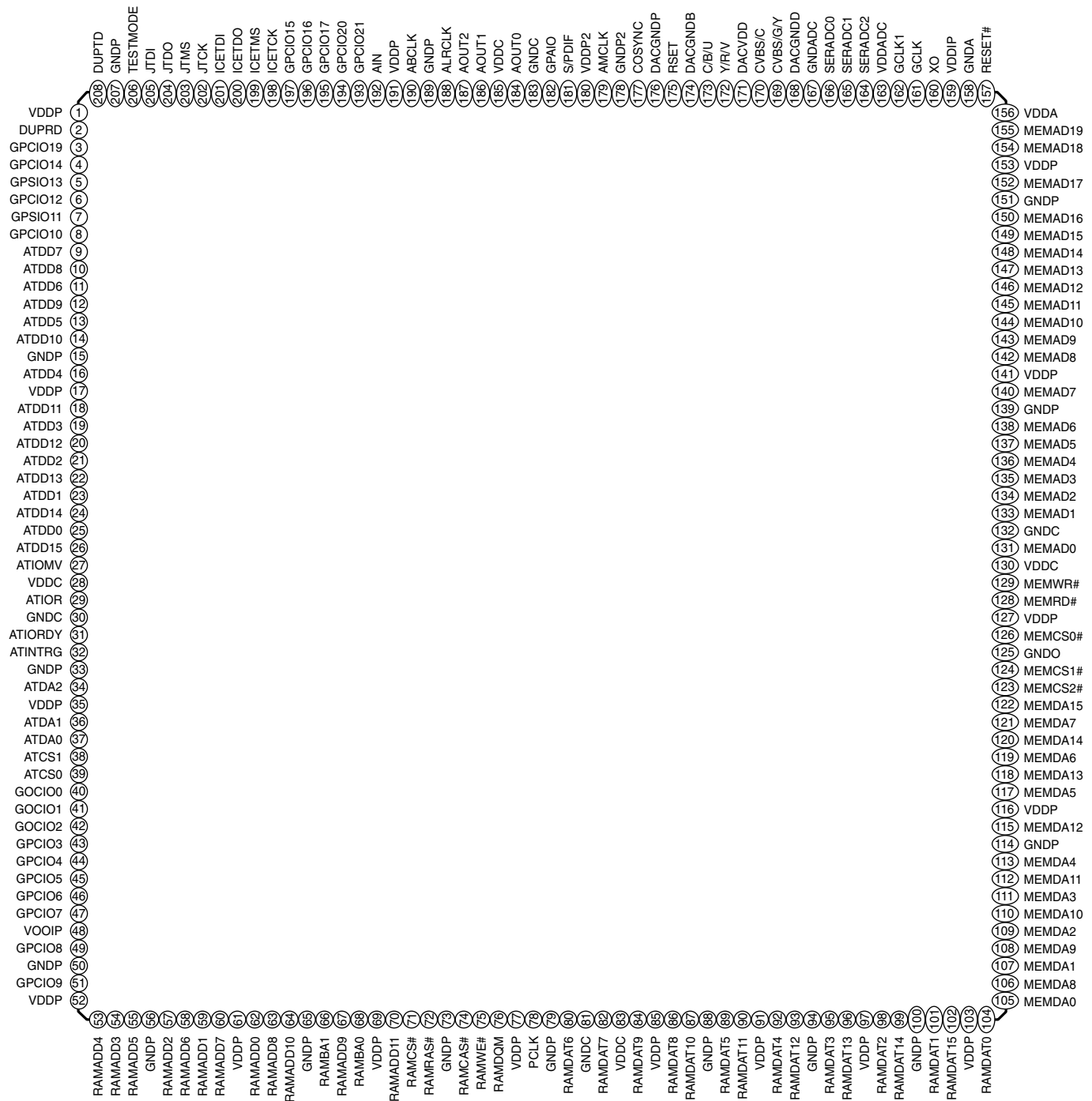
IC822 M12L1616A-7T(SDRAM)



No.	Pin	Name	Input Function
35	CLK	System clock	Active on the positive going edge to sample all inputs.
18	CS	Chip select	Disables or enable device operation by masking or enablin all inputs except CLK, CKE and L(U)DQM.
34	CKE	Clock enable	Masks system clock to freeze operation from the next clock cycle. CKE should be enable at least one cycle prior to no command. Disable input buffers for power down in standby.
20,21~24 27~32	A0 to A10/AP	Address	Row/column addresses are multiplexed on the same pin. Row address : RA0 to RA10, column address : CA0 to CA7
19	BA	Bank select address	Select bank to be activated during row address latchtime. Select bank for read/write during column address latch time.
17	RAS	Row address strobe	Latches row address on the positive going edge of the CLK with RAS low. Enable row access & precharge.
16	CAS	Column address strobe	Latches column address on the positive going edge of the CLK with CAS low. Enable column access.
15	WE	Write enable	Enable write operation and row precharge. Latches data in strting from CAS, WE active.
14,36	L(U)DQM	Data mask ensble	Makes data output Hi-Z, t SHZ after the clock and masks the output. Blocks data input when L(U)DQM active.
2,3,5,6,8,9,11, 12,39,40,42,43, 45,46,48,49	DQ0 to 15	Data input/output	Data inputs/outputs are multiplexed on the same pins.
1,50	VDD/VSS	Power supply/ground	Power and ground for theinput buffer and the core logic.
7,41	VDDQ/VSSQ	Output buffer power/ground	Isolated power supply and ground for the output buffers to proxide improved noise immunity.
37	N.C/RFU	No connection	This pin is recommended to be left no connection on the device.

IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748(DVD Player AV Decoder)



IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748(DVD Player AV Decoder)

Pin No.	Name	I/O	Function
Boot selection, debug interface, GPIO pin, test mode (23pin)			
40	BOOTSEL1	I#	CPU software starting basis select I. Low:starting by flash memory. High : starting by down loaded program from UART.
	GPCI/O[0]#	I/O#	Controlled general I/O by microcomputer software.
	NMI	I	MN1 interrupt I.
208	DUPTD	O	Debug UART data O.
2	DUPRD	I	Debug UART (or IrDA) data I.
41	GPCI/O[1]	I/O	Controlled general I/O by microcomputer software. USE general interrupt I.
42	GPCI/O[2]#	I/O#	Controlled general I/O by microcomputer software. Use general interrupt I.
	SSCSRQ	I	SSC mode : synchronization communication request reception.
43	GPCI/O[3]	I/O	Controlled general I/O by microcomputer software. Use general interrupt I.
44	GPCI/O[4]		N/C
45~47	GPCI/O[5-7]	I/O	Controlled general I/O by microcomputer software. Use general interrupt I.
49	GPCI/O[8]#	I/O	Controlled general I/O by microcomputer software. Use general interrupt I.
	SSCRXD	I	SSC mode : synchronization communication data reception.
51	GPCI/O[9]#	I/O	Controlled general I/O by microcomputer software.
	SSCTXD	O	SSC mode : synchronization communication data transmission.
8	GPCI/O[10]#	I/O#	Controlled general I/O by microcomputer software.
	SSCCLK	I	SSC mode : synchronization communication clock reception.
7	GPCI/O[11]#	I/O#	Controlled general I/O by microcomputer software.
	SSCRRQ	O	SSC mode : synchronization communication acknowledge transmission.
5,6	GPCI/O[12-13]	I/O	Controlled general I/O by microcomputer software.
4	GPCI/O[14]	I/O	Controlled general I/O by microcomputer software.
197	GPCI/O[15]#	I/O#	Controlled general I/O by microcomputer software.
	HSYNC	O	Horizontal synchronization O.
196	GPCI/O[16]#	I/O#	Controlled general I/O by microcomputer software.
	VSYNC	O	Vertical synchronization O.
195	GPCI/O[17]#	I/O#	Controlled general I/O by microcomputer software.
	VCLK x 2	O	VCLK x 2 O.
177	GPCI/O[18]#	I/O#	Controlled general I/O by microcomputer software.
	COSYNC	O	Cosync O.
3	GPCI/O[19]#	I/O#	Controlled general I/O by microcomputer software.
	BOOTSEL2	I	Readed by BOOT ROM after hardware reset and used when select flash ROM or ROM + SRAM set.
206	TESTMODE	ID	Direct connect to GNDP when usually operation.
PLL signal (4 pin)			
157	RESET#	ID	Reset I (Active low). Initialize process start RESET# signal deassert.
161	GCLK	ID	27.000MHz clock for main process generation or xtal I.
160	XO	AO	Connected xyal to GCLK O. N/C when not use xtal.
194	PLLCFGP#	ID#	Process clock PLL set I. Can change when RESET# assert. Usually operation : low, RESET assert term.
	GPCI/O[20]	I/O	Controlled general I/O by microcomputer software.
Analog video port (5pin)			
169	CVBS/G/Y (DAC A)	AO	YC O : CVBS signal O. RGB O : G signal O. YUV O : Y signal O.

IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748(DVD Player AV Decoder)

Pin No.	Name	I/O	Function
172	Y/R/V (DAC B)	AO	YC O : Y signal O. RGB O : R signal O. YUV O : V signal O.
173	C/B/U (DAC C)	AO	YC O : C signal O. RGB O : B signal O. YUV O : U signal O.
170	CVBS/C (DAC D)	AO	Which CVBS signal or C signal O. Select be unrelated to YC / RGB / YUV mide.
175	RSET	AI	DAC adjusting resistor connect.
Digital video port, CPU and ADP test (8 pin)			
199	VID[7]# ICETMS# GPCI/O[22]	O# I# I/O	ITU-R656 conform V / C multiplex. ADP ICE interface mode select I. Controlled general I / O by microcomputer software.
201	VID[6]# ICETDI# GPCI/O[23]	O# I# I/O	ITU-R656 conform V / C multiplex. ADP ICE interface data I. Controlled general I / O by microcomputer software.
200	VID[5]# ICETDO# GPCI/O[24]	O# O# I/O	ITU-R656 conform V / C multiplex. ADP ICE interface data O. Controlled general I / O by microcomputer software.
198	VID[4]# ICETCK# GPCI/O[25]	O# I# I/O	ITU-R656 conform V / C multiplex. ADP ICE interface clock I. Controlled general I / O by microcomputer software.
202	VID[3] JTCK# GPCI/O[46]	O# I# I/O	ITU-R656 conform V / C multiplex. CPU JTAG interface. Controlled general I / O by microcomputer software.
203	VID[2]# JTMS# GPCI/O[47]	O# I# I/O	ITU-R656 conform V / C multiplex. CPUJTAG tms I. Controlled general I / O by microcomputer software.
205	VID[1]# JTDI# PUPRD	O# I# I	ITU-R656 conform V / C multiplex. CPUJTAG data I. Probe UART data I.
204	VID[0]# JTDO# PUPTD	O# O# O	ITU-R656 conform V / C multiplex. CPUJTAG data O. Probe UART data O.
Digital audio port (11 pin)			
179	AMCLK	I/O	Audio master clock I / O. 128,192,256 or 384fs sampling frequency (Programable) use.
181	S/PDIF	O	S / PDIF O.
186,187	AOUT[2:1]		N / C
184	AOUT[0]	O	Digital stereo audio serial data O.
192	AIN	I	Digital stereo audio serial data O.
188	ALRCLK	O	Digital stereo audio bit clock O. Polarity is programable.
190	ABCLK	O	Digital stereo audio LR clock O. AOUT and AIN data output or latch, clock trailing edge or last transition edge.
182	GPAI/O	I/O	Controlled general I / O by ADP software.
162	GCLK1	ID	27.000MHz clock I for audio master clock generating. Connected to GCLK when usually operation.
193	PLLCFGA# GPCI/O[21]	ID I/O	Audio PLL set I. Can change when RESET# signal assert. Usually operation : low RESET# signal assert term. Controlled general I / O by microcomputer software.

IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748(DVD Player AV Decoder)

Pin No.	Name	I/O	Function
Loader interface, AV bit stream interface (25pin)			
18	ATDD[11]# DVDDAT[0]	I/O# I	ATAPI data I / O. A / V data I.
16	ATDD[4]# DVDDAT[1]	I/O# I	ATAPI data I / O. A / V data I.
14	ATDD[10]# DVDDAT[2]	I/O I	ATAPI data I / O. A / V data I.
13	ATDD[5]# DVDDAT[3]	I/O# I	ATAPI data I / O. A / V data I.
11	ATDD[6]# DVDDAT[5]# GPCI/O[26]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
9	ATDD[7]# DVDDAT[7]# GPCI/O[27]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
10	ATDD[8]# DVDDA[6]# GPCI/O[28]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
12	ATDD[9]# DVDDAT[4]# GPCI/O[29]	I/O# I# I/O	ATAPI data I / O. A / V data I. Controlled general I / O by microcomputer software.
19	ATDD[3]# DVDREG# GPCI/O[30]	I/O# I# I/O	ATAPI data I / O. A / V data request O (Polarity is programmable). Controlled general I / O by microcomputer software.
20	ATDD[12]# DVDVALID	I/O# I	ATAPI data I / O. A / V data active I (Polarity is programmable).
21	ATDD[2]# DVDERR# GPCI/O[32]	I/O# I# I/O	ATAPI data I / O. A / V error I (Polarity is programmable). Controlled general I / O by microcomputer software.
22	ATDD[13]# DVDSOS	I/O# I	ATAPI data I / O. A / V sector opening I (Polarity is programmable).
23	ATDD[1]# DVDSTRB	I/O# I	ATAPI data I / O. A / V data bit strobe (Clock) I (Programmable).
24	ATDD[14]# GPCI/O[34]# MEMCS[3]#	I/O# I/O# O	ATAPI data I / O. Controlled general I / O by microcomputer software. General chip select O, from CPU to external device.
32	ATINTRQ# GPCI/O[35]	I# I/O	ATAPI interruptio requirement I. Controlled general I / O by microcomputer software.
26	ATDD[15]# GPCI/O[36]	I/O# I/O	ATAPI data I / O. Controlled general I / O by microcomputer software.
27	ATLOW# GPCI/O[37]	O# I/O	ATAPI PIO write signal O. Controlled general I / O by microcomputer software.
29	ATIOR# GPCI/O[38]	O# I/O	ATAPI PIO write signal O. Controlled general I / O by microcomputer software.
31	ATIORDY# SERVDSRPDY# GPCI/O[39]	I# I# I/O	ATAPI PIO ready signal I. Survo DSP ready signal I. Controlled general I / O by microcomputer software.
25	ATDD[0]# GPCI/O[40]	I/O# I/O	ATAPI data I / O. Controlled general I / O by microcomputer software.
34	ATDA[2]# GPCI/O[41]	O# I/O	ATAPI address signal O. Controlled general I / O by microcomputer software.
36	ATDA[1]# CDERR# GPCI/O[42]	O# I I/O	ATAPI address signal O. CD-DSP error signal I. Controlled general I / O by microcomputer software.
37	ATDA[0]# CDFRM# GPCI/O[43]	O# I# I/O	ATAPI address signal O. CD-DSP frame signal I. Controlled general I / O by microcomputer software.

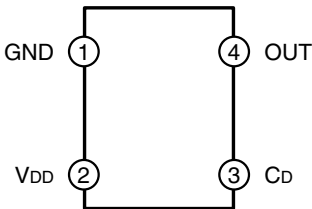
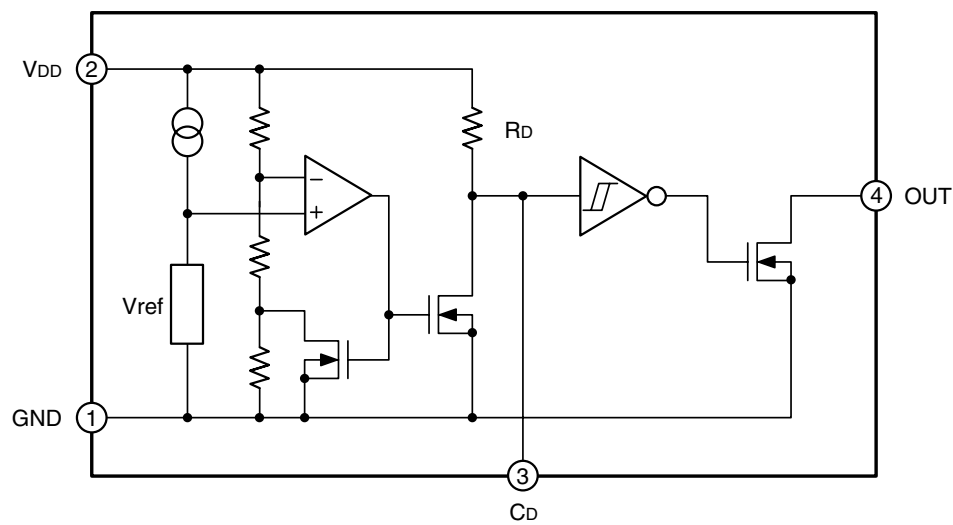
IC BLOCK DIAGRAM & DESCRIPTION

IC800 ZR36748(DVD Player AV Decoder)

Pin No.	Name	I/O	Function
38	ATCS1#	O#	ATAPI chip select signal O.
	CDCLK#	I#	CD-DSP bit clock signal I.
	GPCI/O[44]	I/O	Controlled general I / O by microcomputer software.
39	ATCS0#	O#	ATAPI chip select signal O.
	CDDAT#	I#	CD-DSP data I.
	GPCI/O[45]	I/O	Controlled general I / O by microcomputer software.
ADC interface (3 pin)			
164~166	SERADC[2:0]	I	ADC analog I.
SDRAM interface (36 pin)			
80,82,84,86, 87,89,90,92, 93,95,96,98, 99,101,102, 104	RAMDAT[15:0]	I/O	SDRAM data I / O.
53~55,57~60, 62~64,67,70	RAMADD[11:0]	O	SDRAM address O.
72	RAMRAS#	O	SDRAM low select O (Active low).
74	RAMCAS#	O	SDRAM column select O (Active low).
78	PCLK	O	SDRAM clock O (Same internal process clock).
76	RAMDQM	O	SDRAM data mask O (Active high).
66,68	RAMBA[1:0]	O	SDRAM bank select O.
71	RAMCS#	O	SDRAM chip select O (Active low).
75	RAMWE#	O	SDRAM write enable O (Active low).
External memory interface (41 pin)			
105~113, 117~122	MEMDA[15:0]	I/O	External memory data I / O.
131,133~138, 140,142~150, 152,154	MEMAD[18:0]	O	External memory address O. Used MEMAD (18 : 16) for PLL debug.
155	MEMAD[19]#	O#	External address O.
	GPCI/O[33]	I/O	Controlled general I / O by microcomputer software.
129	MEMWR#	O	External memory write enable O (Active low).
128	MEMRD#	O	External memory read enable O (Active low).
124,126	MEMCS[1:0]#	O	External memory chip select O (Active low).
123	MEMCS[2]#	O#	External memory chip select O (Active low).
	GPCI/O[31]	I/O	Controlled general I / O by microcomputer software.
Power supply (52 pin)			
15,33,50,56, 65,73,79,88, 94,100,114, 125,139,151, 189,207	GNDP	S	3.3V digital peripheral power supply GND (16 pin).
1,17,35,61,69, 77,85,91,97, 103,116,127, 141,153,191	VDDP	S	3.3V digital peripheral power supply (16 pin).
48,159	VDDIP	S	3.3V peripheral reference voltage (2 pin).
178	GNDP2	S	Filtered 3.3V digital power supply GND for AMCLK.
180	VDDP2	S	Filtered 3.3V digital power supply for AMCLK.
30,81,132,183	GNDP	S	1.8V digital core power supply GND (4 pin).
28,83,130,185	VDDP	S	1.8V digital core power supply (4 pin)
158	GNDP	S	Internal PLL circuit GND.
156	VDDP	S	1.8V internal PLL circuit power supply.
163	VDDP	S	3.3V DAC analog power supply.
168,174,176	GNDP	S	3.3V DAC analog power supply GND (3 pin).
167	GNDP	S	3.3V ADC analog power supply.
	GNDP	S	3.3V ADC analog power supply GND.

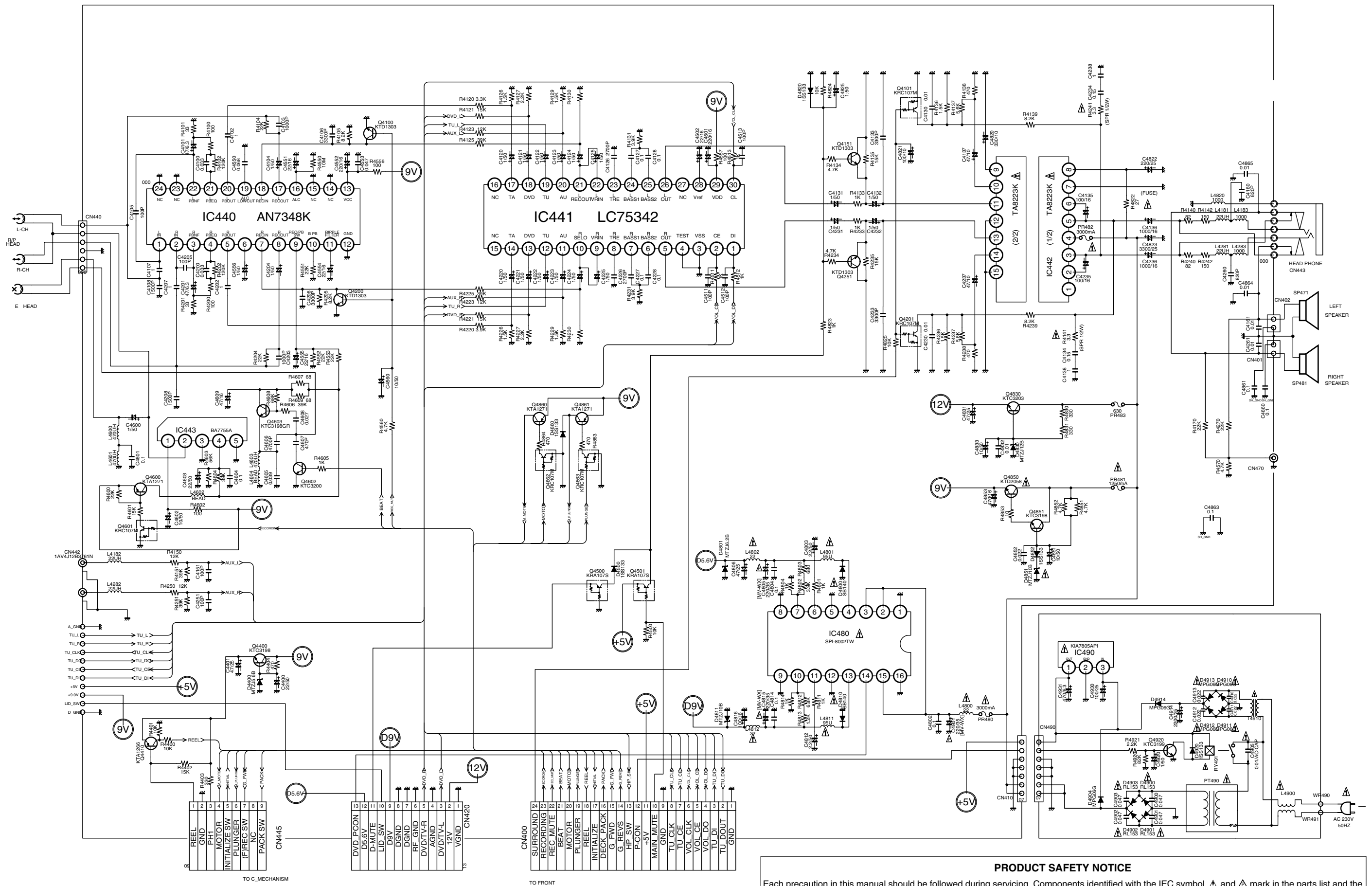
IC BLOCK DIAGRAM & DESCRIPTION

IC802 PST3627U(Reset)







PIN No.	PIN NAME	FUNCTIONS
1	GND	GND Pin
2	VDD	VDD Pin / Voltage Detect Pin
3	Cd	Capacitor Connect Pin with Delay
4	OUT	Reset Signal Output Pin

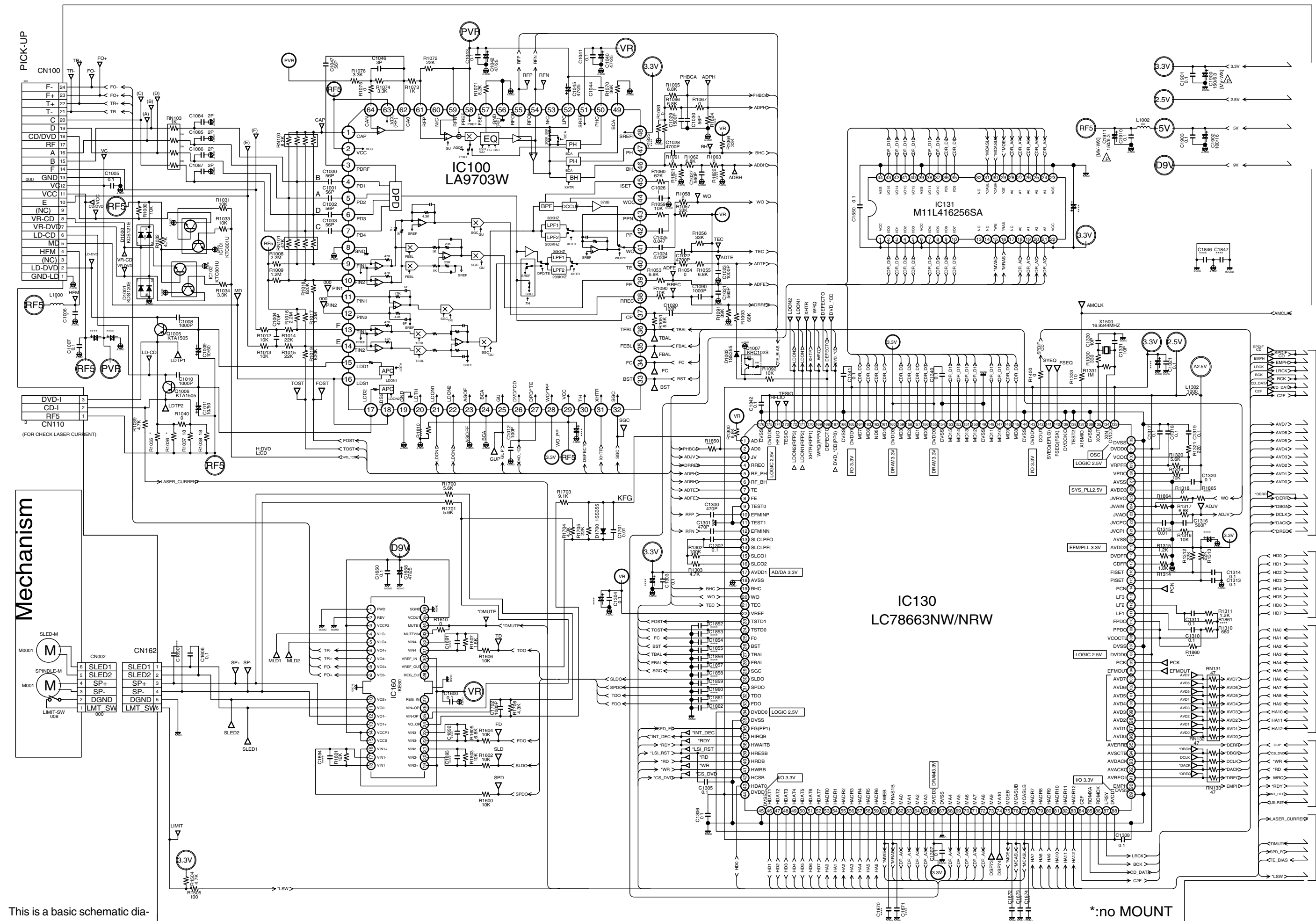
SCHEMATIC DIAGRAM (MAIN AMP)



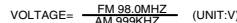
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  and  mark in the parts list and the schematic diagram designated components in which safety and performance can be of special significance. When replacing a component identified by  and  , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

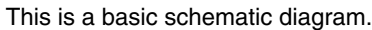




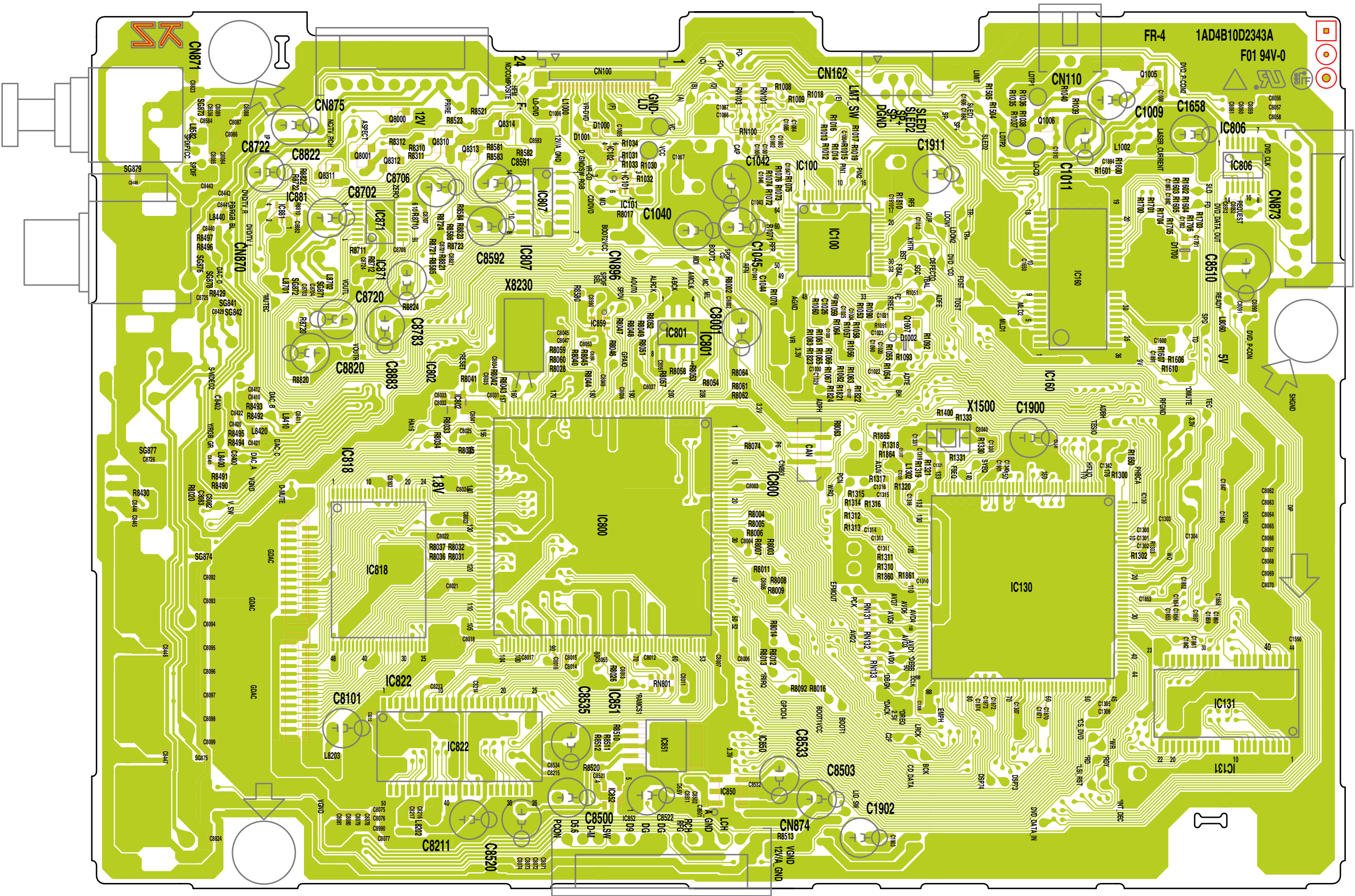
This is a basic schematic diagram.

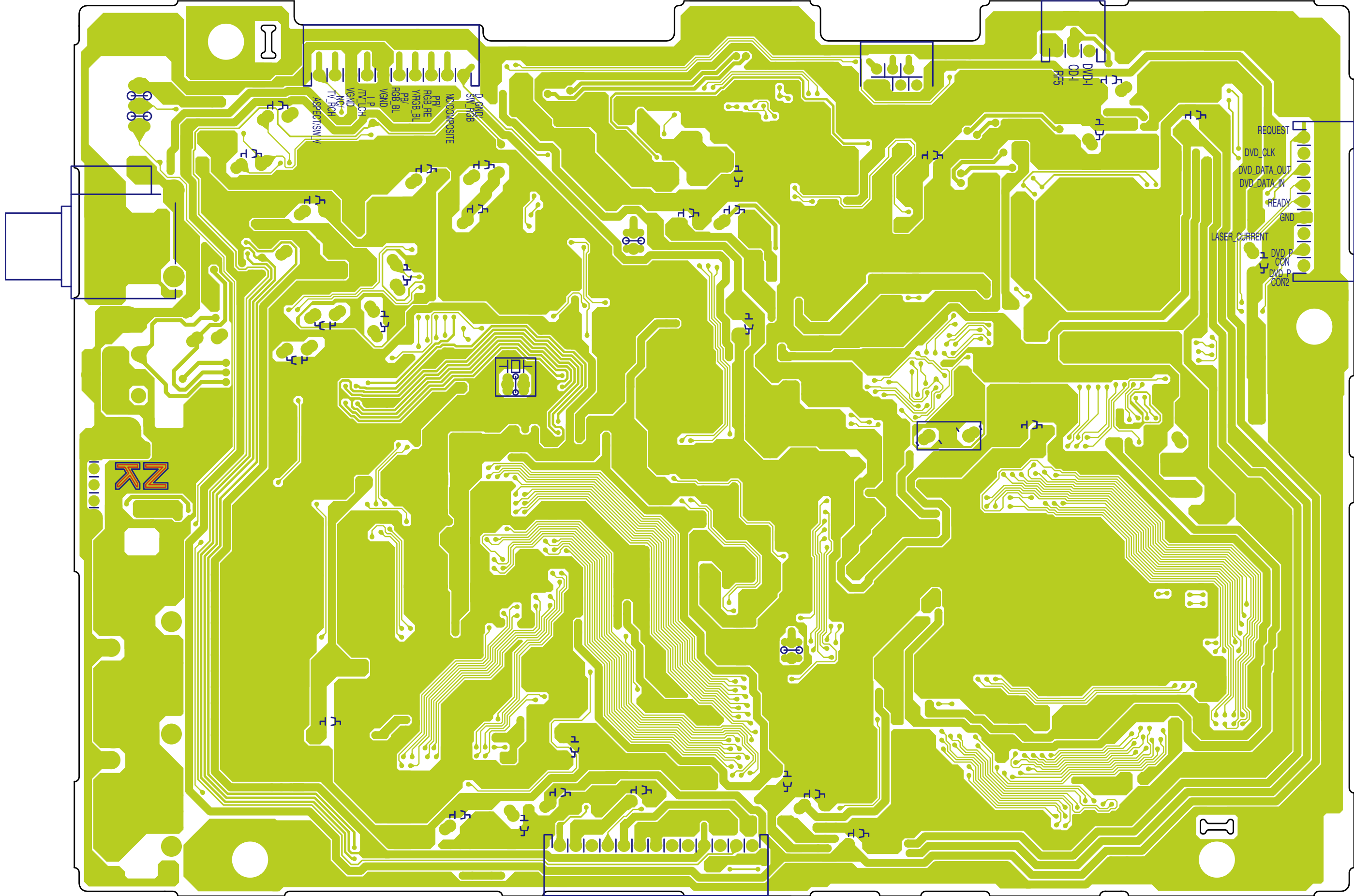


This is a basic schematic diagram.





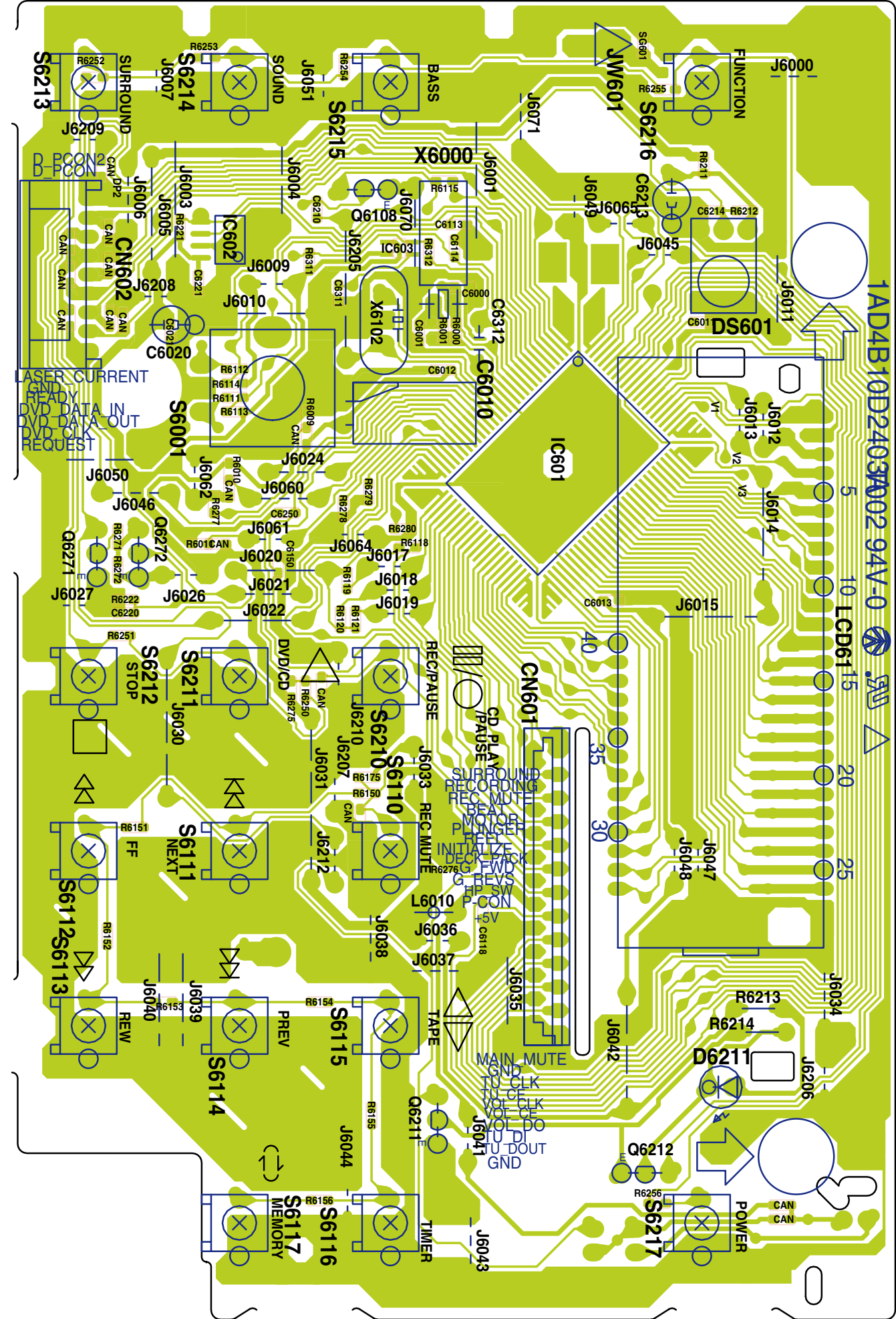




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WIRING DIAGRAM (FRONT)



WIRING DIAGRAM (SCART and POWER SUPPLY)

